

Te Ōritetanga Tukatuka mā te Hanganga | Anga Tractatus

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Peke ki te ihirangi matua

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Te Ōritetanga Tohatoha Mā te Hanganga: He Tauira Mahi ā-Hapori mō te Pūmau o ngā Uara

Te Ōritetanga Tohatoha ā-Rauemi: Me pēhea te Whakatinana a tētahi Tūāpapa ā-Hapori i te Piri o ngā Uara mā te Hanganga Ture Matua i te Taumata iti iho i te Hangarau Nui.

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Wātea anō hoki i roto i ngā reo: Ingarihi · Tiamana · Wīwī · Nēherelani · Te reo Māori

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Tūnga. Kāore tēnei pepa i arotakengia e ōna hoa. Ehara te kaituhi i te kairangahau ture. He rangahau take tuhinga tēnei i whakaputaina e te kaiwhakahaere o te papa e whakamārama ana, i tuhia kia mārama ai ngā ū ki ngā hanganga me ngā tikanga ture o te papa ki tētahi hōtaka rangahau kua whakawhanake taputapu tātari mō ngā take oranga e pā ana ki ēnei ū.

Whakarāpopototanga

He rōpū rangahau ture hou e kī ana ka whakahaere ngā papa matihiko i tētahi momo mana motuhake — *te mana pūnaha taiao* — e mahi ana i te wā kotahi mā roto i ngā tūranga e toru: hei kaitiaki kuaha o te papa, hei kaihanga ture mō ngā hononga i roto i ā rātou pūnaha taiao, ā, hei kaiwhakahaere kirimana e whai wāhi ana ki ngā tauhokohoko e whakahaerehia ana e rātou.¹ Ka tūtohu tētahi mahi e hāngai ana, ko *te tika tohatoha*—arā, te tohatoha tika o te oranga ki ngā kaiuru katoa o te pūnaha taiao—hei whakaaro āpiti mō te whakatinanatanga o ngā ture aukati i te whakataetae, ina kāore aua kaiuru e whiwhi ana i te ratonga ōrite mā te tātaritanga ture whakataetae tuku iho.²

E tuhi ana tēnei pepa i tētahi tauira mahi kotahi: he tauira ā-hapori papaanga (*Village*, e whakahaerehia ana e My Digital Sovereignty Ltd, Aotearoa New Zealand) ko āna oati hanganga he whakatinanatanga o tētahi oati ariā o mua — arā, ko te mate āhuatanga oranga i tautuhia i te hōtaka rangahau he mea tino mārama hei mate *rere o ngā uara*, ā, ko te hanganga hanganga te pūnaha e taea ai e ngā uara kua whakataua e te papaanga kia piri tonu kia aukati i taua rere.

Ka whakanoho te pepa i ngā ū ki ngā hanganga a Village ki roto i te *anga Tractatus* i whakaputa i a rātou — he hanganga ture i tūhonohono ki te wehewehenga ā-Wittgenstein o ngā mea e taea te kī / kāore e taea te kī, te maha-uara a Berlin, te whakahaere maha-pū a Ostrom, ngā mātāpono pūnaha ora a Alexander, me Te Ao Māori ngā anga rangatiratanga raraunga taketake

— ā, e kī ana ko te tūhonohono i waenga i ngā mahi a Village me te hōtaka rangahau ā-ture, ā-akoranga kei te paparanga uara, ehara i te paparanga hanganga anake. He whakautu anō hoki ēnei e rua ki taua āwangawanga kotahi: arā, ka whakamahia te mana o te papa hei whakawā i te oranga o ngā kaiuru o te pūnaha taiao, kāore te māketē e tiaki ana i tō rātou oranga. Ko te whakautu a Village he hanganga e whakatinanahia ana ngā uara e te wachere o te papa, ehara i te mea e whakapuaki ana i roto i ngā hokohoko a te papa.

Ko te kaituhi he kaiwhakahaere kamupene i whakatūria e ia anake, ehara ia i te kairangahau ture. Ko te koha a tēnei pepa he mea tuhipoka, ehara i te mea ariā: e tuku ana i tētahi take kī tonu i ngā puna tuatahi hei aromātai, hei arotake, hei whakawhānui, hei whakakore rānei e te hōtaka rangahau.

Wāhanga 1 — Anga me te whānuitanga

Te kaupapa rangahau ” *Te Whakahaere i te Mana Pūnaha-ā-Taiao mā te Ture Kirimana me te Ture Whakataetae*” i te Whare Wānanga o Antwerp, Te Tari Ture, i whakahaerehia i raro i te rangahau matua a Jan Blockx, ā, i pūtea e te Research Foundation – Flanders, kua tūtohu, kua whakawhanake hoki i tētahi tauira ture e hāngai ana ki te pūnaha-ā-taiao mō ngā āhua motuhake o te mana e whakamahia ana e ngā papa i roto i ngā pūnaha-ā-taiao e manaaki ana rātou.³ Ko te nekehanga tātari matua o te kaupapa he tiro ki te papaanga ehara i te kaiwhakahaere kotahi e whai mana māketē ana, engari hei kaiwhakahaere e whakahaere ana i ngā mahi e toru i te wā kotahi, ā, i ētahi wā ka taupatupatu: hei kaitiaki kuaha e whakatau ana i te uru ki te pūnaha taiao; hei kaihanganga ture e tuhi ana i ngā ture e whakahaere ana i ngā kaiuru o roto i te pūnaha taiao; ā, hei kaiuru kirimana ki ngā whakawhitinga e whakahaerehia ana e aua ture. E mārāma ana te kaituhi o tēnei pepa ki te tauira toru-mahi hei karu tātari matua o te pepa, ā, e whakaae ana ia ko te kaupapa Blockx te rangahau whakarite anga.

He whakaaro kē, he honohono hoki, e tūtohu ana i *te tika tohatoha* hei toronga tātaritanga: me aromatawai te oranga ka puta i tētahi pūnaha taiao, ehara i te nui katoa anake, engari me aro hoki ki te āhua o tōna tohatoha ki waenga i ngā rōpū whai pānga e hāngai ana te pūnaha taiao, me te aro motuhake ki ngā rōpū kei te tū ā-hē i roto i te pūnaha taiao, ā, ko tō rātou oranga te mea tino ngoikore ki ngā utu ā-roto me ngā āheinga kirimana o te tūāpapa.⁴ Ehara taua tūtohu i te whakarato rongoā motuhake; e tautuhi ana i tētahi āputa i roto i ngā ture whakataetae, kirimana, me te ture kaihoko o nāiane, kāore e aro nui ana ki te tohatoha oranga ā-roto, ā, e tūtohu ana i te tika tohatoha hei kotahi o ngā whakaaro hei whakakī i taua āputa.

Ko te kaituhi o tēnei pepa he kaiwhakahaere kamupene kotahi-kaiwhakatū, ā, kua whakapau ia i ngā rua tau kua pahure nei ki te hanga i te tūāpapa i whakamārama ai i te Wāhanga 3 me te anga ariā i whakamārama ai i te Wāhanga 2. Kāore te kaituhi i whai whakangungu ki te ture whakataetae o

te Uniana o Europi, ā, kāore ia e whakapae ana he taurite tōna ki te hōtaka rangahau i whakahuatia ake nei. He tuku tuhinga taunakitanga tēnei pepa: he tauira kotahi kua whakamātauhia, i tuhia e te kaiwhakahaere o te tūāpapa e tuhia ana, hei tuku ki te hapori mātauranga ture i runga i te whakaaro ka whakamahi te hapori i tōna ake mana ki te aromātai.

He aha te pepa nei. He tuhinga whakamārama mō ngā oati hanganga ā-pāpori me ngā oati ture o tētahi tūāpapa; he whakapae ko ēnei oati he whakatinanatanga o tētahi tūnga ariā o mua mō te piri o ngā uara ki te āhua whakahaere; he tāruatanga o taua tūnga ki runga i te tauira mahi-toru me te anga taurite-whakawhānui; he whakapuakitanga i ngā mea kāore anō kia whakatinanahia me ngā mea e whakawhirinaki ana ki te ngākau pono o te kaiwhakatū; he tono ki te hapori ā-ture, ā-ākonga kia aromatawai mēnā e whai hua ana te huarahi tuhinga ki te hōtaka rangahau, ā, mēnā āe, he aha.

He aha kāore tēnei pepa. He ariā whānui mō ngā here o te tūāpapa; he kerēme kua "whakatau" e te tūāpapa te tika tohatoha; he whakapae whakahē ki ngā rangahau ture o nāianei; he rauemi hokohoko mō te tūāpapa, tōna kaiwhakahaere, me ngā hiahia arumoni e hono ana; he tono mō te whakatinanatanga ā-ture, te panoni ture rānei; he koha hoa ki te hōtaka rangahau e whakahuatia ana e ia.

Tikanga. Ka taea te whakamana i ngā kerēme pono a te pepa mō te papa mā ngā taonga tūmatanui kua whakahuahia i te Wāhanga 8. Ko āna kerēme ariā e ū ana ki ngā tūāpapa whakaaro kua whakaputaina o te anga Tractatus⁵⁶ me ngā tātaritanga mō te rereke uara me te rereke kaupapa i whakaputaina e te kaiwhakahaere i roto i te raupapa tuhinga AI Governance for Communities.⁷⁸ Ki te mea i whakawhirinaki te kaituhi ki te tuhi āwhina AI, ka whakamōhiotia taua āwhina; ka mau te kaituhi i te kawenga katoa mō ia kerēme, ā, e mihi ana ia ki ngā whakatikatika.

Wāhanga 2 — Te piri o ngā uara: kei te whakautu te hanganga kōrero

2.1 Te kitenga taketake me tōna takenga hinengaro

Kāore te tūnga ariā e tuhia ana e tēnei pepa i ahu mai i tētahi whakaaro kotahi anake. I puta ake i roto i te tata ki te rua tau o ngā mahi a te kaituhi i mua i te Village, e pā ana ki te āhua whakahaere me te rangatiratanga matihiko, i raro i te ingoa mahi *Sy.Digital*, i mua i te noho o te papaanga Village anō. E rua ngā tuhinga i roto i taua kohinga e whakapūmau ana i te tūnga i roto i tētahi āhua rā-tau. Ko te tuatahi, *ko Ngā Uara Matua me Ngā Mātāpono o Sy.Digital* (STR-VAL-0001, 29 o Poutū-te-rangi 2025), i whakamārama i tētahi huinga kotahi, whai hononga o ngā uara whakahaere — arā ko te rangatiratanga, te mārama, te hapori, me te whakatinanatanga whakamua i waenga i ēnei — me tētahi anga whakahaere (STR-GOV-0002, 31 o Poutū-te-rangi 2025) i ngana

ki te whakarite kia ū ngā mahi katoa a te whakahaere ki taua huinga kotahi. Ko te tuarua, *Agentic Organizational Structure: A New Paradigm for Digital Sovereignty* (STO-INN-0002, 22 o Paenga-whāwhā 2025), i tango i te hikoinga e whai ake nei. I whakapae ia, "*i hangaia ngā taumata whakahaere tuku iho i runga i te whakahaere mōhiotanga hei mātāpono matua whakarite*", "*kaore te mōhiotanga e iti ana, engari ka wātea ki te katoa mā te āwhina AI, ka pakaru te ariā matua o te whakahaere taumata*", ā, i tūtohu i tētahi hanganga whā-wāhanga i whakaritea ki ngā pae wā me te mauroa o ngā pārongo, kaua ki te whakahaere mōhiotanga. Ko tōna wāhanga tekau i tapaina ko "*Beyond Bureaucracy*".⁹

Ko te whakarāpopototanga a te kaituhi mō te mōhiotanga, i tuhia i te tau i muri mai i roto i tētahi tuhi tuatahi tono pūtea kāore i tukuna i Poutū-te-rangi 2026, e pānui ana: "*I whakaaweawe te kaupapa e te mōhiotanga ka tino pā te pānga o te AI ki ngā whakahaere i te wā poto, ā, kāore a Max Weber e whai take ana. Kāore e taea e te uara o tētahi whakahaere te whakawhirinaki ki ngā taumata o te mātauranga me ngā pūkenga*".¹⁰ Ko taua māramatanga anō tērā i whakawhanakehia e STO-INN-0002 i tētahi tau i mua, kāore i whakahuatia tika a Weber. Ko tēnei pepa te tuatahi ki te whakatakoto i te kōrero i runga i āna ake tikanga a Weber, ā, ki te whakanoho i taua kōrero ki roto i tētahi anga ture-ā-ākoranga.

Ko te ariā whakahaere a Max Weber, i whakamārama tino whānuitia i roto i te pukapuka i whakaputaina i muri i tōna matenga, *Wirtschaft und Gesellschaft* (1922), i whakanoho i te mana whaimana o te whakahaere ki te wehenga mātauranga ā-ture: ko te āhua pūnaha whakahaere e whakarite ana i te mātauranga motuhake ki roto i ngā taumata mana, ā, ko ngā whakataunga a aua taumata e whakamanahia ana e te mātauranga e mau ana i roto i te pūnaha. He whai hua te pūnaha whakahaere nā te mea ko te taumata teitei e tautuhi ana i te ahunga, ko ngā taumata waenga ka whakamāori i ngā tohutohu hei tikanga, ā, ka whakatinana ngā kaimahi i ngā tikanga i raro i te tiroiro. Ka tāpiri uara ia taumata nā te mea kei ia taumata he mātauranga kāore i te taumata kei raro iho. Ko te rerekētanga o te mātauranga te mea e whakarato ana i te whakakotahitanga e whai hua ai te mana ā-taumata. Nō te kotahi rau tau, ko te āhua Weberian te tauira rangatira mō ngā whakahaere nui puta noa i te kāwanatanga, te ahumahi, te mātauranga, me ngā hanganga ā-pakihī o te ao papamahi.

Kua tino pakaru, i te whakamahinga tūturu, e ngā tauira reo nui kua whakangungua ki ngā tuhinga rahi-ipurangi, te kore oritanga o te mātauranga e whakawhirinaki ana te āhua Weberian. Ka taea e tētahi kaimahi kei te pūtaka o te taumata te toro, i te wā e hiahia ana, ki ngā ihirangi taumata mātauranga mō tētahi wāhanga i whakaritea e te taumata i mua. Ka taea e te tihī te tuhi rautaki i te tere o tētahi kaimahi matua. Kei te tere te kite a ngā papa waenga, ko tā rātou mahi he whakamāori i ngā tohutohu hei tikanga mahi, kua taea ināianei te whakakapi i te nuinga o taua mahi whakamāori mā ngā mīhini aunoa. Kāore te whakarōpūtanga ā-tāwhana o te mātauranga me ngā pūkenga,

i tautuhia e Weber hei puna o te mana whakahaere ā-ture, e mahi ana ināiane i te mahi whakakotahitanga i mahia e ia i mua.

Me whai pūnaha whakakapi hei whakakapi i tēnei. Ko ngā mea i kīia e ngā whakahaere tuku iho hei whakakapi i tēnei — arā ngā uara, te mīhana, te kaupapa, te ahurea — kua hinga i ngā wā katoa. Ka rere ngā uara kua whakataua i raro i ngā panonitanga kaimahi, te pēhanga māketete, te tārite whakataetae, me te pakaru ā-roa e puta ana ina kāore he tangata e aroturuki ana i te tawhiti i waenga i ngā kōrero a te whakahaere mō tōna take me āna mahi. He tino mōhiotia tēnei āhua hē i ngā tikanga whakahaere ā-tari kia riro hei kōrero whakataukī: *”i te mutunga ka riro rātou hei mea i whakaritea e rātou hei whakakapi.”* Ko ngā tātaritanga kua whakaputaina e Village anō e tuhi ana i tēnei āhua hē i raro i ngā upoko *ingoa He Hē i te Mīhana nā te Whakamahī Hangarau*¹¹ me *Te Ārai i te Haere Pararē ki ngā Tikanga o te Ipurangi ā-Ao*,¹² me kimi taua kitenga anō i ia take: ka ngaro ngā uara kua whakataua i raro i ngā pēhanga hangarau me te māketete, mēnā kāore he tikanga hei pupuri i a rātou. Kāore te ariā a Weber e whakarato i taua tikanga; kāore i hiahiatia, nā te mea i whakaratohia e te taumata mātauranga. I te āhuatanga i muri i te taumata mātauranga, me whai he whakakapi.

2.2 He aha te tikanga o te ”manawaroa o ngā uara”, me te hurihanga mai i te pūnaha kotahi ki ngā pūnaha maha o ngā uara

Ka whakamahī tēnei pepa i te kupu *’whakapiri uara’* hei ingoa mō te āhuatanga kei tētahi whakahaere ina ārai ā-hanganga āna uara kua whakapuaki i te huringa. He whakapiri uara tō tētahi whakahaere mēnā ko ngā tikanga e whakamahia ana e ia ki te whakarite mahi, ki te whakataua i ngā taupatu, me te whakahaepapa i ngā kaiuru, e herea ana ā-hanganga ki āna uara kua whakapuaki, kia pērā ai, me pakaru te hanganga kia wehe atu i aua uara kua whakapuaki, kua ko te whakamārama anō i tētahi tuhinga kaupapa here. Ehara te kerēme i te mea ahurea — ehara i te mea e pā ana ki ngā mea e whakapono ana ngā mema o te whakahaere — engari he mea hanganga: e pā ana ki ngā mea e māmā, e uaua, e kore rānei e taea e te hanganga o te whakahaere.

Ehara te ariā nei i te mea whakawhē i te wā ka whakapuakina, ā, nō te kitenga kāore te nuinga o ngā tūāpapa o nāiane e whai ana i tēnei āhuatanga, ka puta ai tōna kaha. He tūāpapa e noho ana ōna uara ki roto i tētahi tuhinga hokohoko, tētahi waehere whanonga, tētahi tauākī mīhana kua whakaputaina — ā, i taua wā ka whakamanahia e tōna waehere ngā mea katoa e tino pai ana mō te whai wāhi, te whiwhinga moni, te tipu rānei — kāore he piringa uara. Ka taea e ngā uara kua whakatauhia te rere i ngā wā ka kore e hāngai ki ngā pakihī, ā, kāore e kitea e ngā kaiuru taua rere kia tīmata kē te mate e tautuhia ana e te hōtaka rangahau.

Te huringa mai i ngā uara kotahi-nui ki ngā uara maha. Ko ngā mahi o mua a te kaituhi i aro ki te ū o ngā uara i roto i tētahi anga ariā rerekē. I ngana

ngā tuhinga whakahaere a Sy.Digital o Maehe–Aperira 2025 i whakahuatia ake nei ki te whakarite i tētahi huinga uara whakahaere kotahi, whai hononga, kia kore ai e rere mā te whakamahi i tētahi *anga whakatikatika uara* — arā, he aratohu i tāpiri i tētahi huinga *uara* kotahi ki ngā tohu ka kitea puta noa i ngā mahi whakahaere, kia mau tonu ai tētahi anga uara kotahi i te wā. Ko te māramatanga kei muri i taua anga he mea noa i ngā tikanga whakahaere ā-tari o te wā whakamutunga o te ao hou, ā, e hāngai ana ki tētahi tātaritanga kua whakawhanakehia puta noa i tētahi kohinga nui o ngā rangahau: arā, ko te rere haere ā-ahurea, ā-tari hoki, mai i ngā anga uara ā-hapori ki ngā anga uara takitahi i roto i ngā rua rau tau kua pahure — ko tā Alasdair MacIntyre e kī ana, ko te wehenga o te kōrero matatika i raro i ngā āhuatanga o te wā whakamutunga o te ao hou,¹³ ko tā Charles Taylor e tautuhi ana he atomism hei āhuatanga ahurea, ehara i te mea taiao,¹⁴ te mea i tuhia e Robert Bellah me ōna hoa mahi hei taumahatanga i waenga i te takitahi me te hapori i roto i ngā hapori o te mutunga o te wā hou,¹⁵ te mea e whakaatu ana a Robert Putnam mā te rangahau tūturu hei hekenga o te rawa ā-hapori,¹⁶ te mea e whakamārama ana a Michael Sandel hei te whakakī a te pūnaha tōrangapū i ngā rawa ā-hapori tūturu,¹⁷ me ngā hua ā-ōhanga e hāngai ana ki ngā mahi a Thomas Piketty mō te whakakotahitanga pūtea mō te wā-roa¹⁸ — kua puta he āhuatanga i roto i te e uaua haere ana te tiaki i ngā mana me ngā hiahia o ngā hapori, he rerekē ki ngā mana me ngā hiahia o ngā kaiuru takitahi whai rawa rawa, mā ngā tikanga māketete, mā ngā kirimana rānei anake. Kāore te kaituhi e ngana ki te whakawā i taua tautohetohe rangahau nui. Ka whakamahia tēnei pepa hei horopaki mō tētahi kitenga whaiti ake: i ngana ngā mahi tuatahi a Sy.Digital ki te whakautu ki tēnei āhuatanga mā te pupuri i tētahi huinga uara whakahaere *kotahikia* tū pakari, kia kore ai e rereke, me te mea ko te whakautu tika ki te ngaronga o ngā uara ko te whakarite pai ake ki tētahi anga kotahi.

Te mōhiotanga i waenganui i te whanaketanga. Ko te mōhiotanga matua i whakahou i te anga Tractatus i te mutunga, ko te mea i hē te urupare anga kotahi. Ko te kerēme hōhonu ake — i ahu mai i te whakapuakitanga pakeke a Isaiah Berlin mō te maha o ngā uara, ā, i tino mārama i tana kauhau o te tau 1988, *The Pursuit of the Ideal*¹⁹ — arā, ehara te maha o ngā uara tūturu a te tangata i te ārai ki tētahi pūnaha uara e hono ana, engari he āhuatanga o te oranga tangata. Ko te tirohanga a Berlin, i whakawhanakehia puta noa i *ngā Tuhinga Ewhā mō te Rangatīratanga*²⁰ ā, i whakapūmauhia anō i te tuhinga whakamutunga, ko te rapunga mō tētahi pūnaha uara kotahi, e tau ana, he hē ā-arotau (nā te mea kāore ētahi painga tūturu e taea te whakataurite) ā, he mōrearea ā-hitori (nā te mea ka huri ngā pūnaha uara kotahi ki te whakahau, i raro i te pēhanga). Ko te rangahau whakamārama a John Gray mō Berlin e whakawhanake ana i tēnei panui: kāore te maha-āhua mō Berlin he relativism, kāore hoki he kōwhiringa tuarua pai ki te rapunga i tētahi anga matatika kotahi, engari ko te āhuatanga e taea ai te oranga tangata tūturu.²¹ I tēnei tirohanga, ehara ngā uara maha i te āhuatanga hei whakauru noa i roto i tētahi whakahaere i hangaia mō tētahi atu mea. Ko rātou te tūāpapa o ngā āheinga o te whakahaere.

Ko te hua whaihua mō te anga *Tractatus*, kāore i taea te whakapūmau i ngā uara mā te pupuri i tētahi huinga uara kotahi kia tū pakari. Me whakatutuki tēnei mā te pupuri i ngā uara maha kia tuwhera — mā te hanganga e ārai ai i te papanga kia kaua e whakakotahi i te maha ki tētahi taumata kotahi, ahakoa mā te whakapai ake i te whai wāhi, te whakakotahitanga o ngā tikanga, te pēhanga rānei kua kohia mai i te tārite whakataetae. I huri te mahi hanganga i te pātai mai i te *”me pēhea e whakakīkī ai i ā mātou uara?”* ki te *”me pēhea e mau tonu ai ngā uara maha kia tū motuhake i ngā wā katoa?”* E whakamārama ana te Wāhanga 2.3 i te urupare a te anga *Tractatus* ki te raru kua whakahōu, ā, e whakamārama ana te Wāhanga 2.4 i te hanganga ture toru-āputa e whakatinanahia ai taua urupare.

2.3 Te anga *Tractatus* hei hangarau whakapūmau i ngā uara

Ka whakatinanahia te piri o ngā uara o *Village* mā tētahi hanganga ture e kīia nei ko te *anga Tractatus*. Ko te ingoa nei i whiriwhiria kia whakahua i te *Tractatus Logico-Philosophicus* (1921) a Wittgenstein. Kua tuhia te anga nei ki ngā rauemi whakaaro i whakaputaina e te kaiwhakahaere,²²²³ me ōna tūāpapa arorangi i tangohia mai i ngā tikanga e rima kua wehea e tētahi rautau me tētahi haurua-ao: te wehenga o ngā mea e taea te kī / kāore e taea te kī mai i Wittgenstein, te kanorau uara o Isaiah Berlin, te rangahau whakahaere-pokapū maha me ngā rawa tūmatanui a Elinor Ostrom, te mahi reo taurira pūnaha ora a Christopher Alexander, me ngā anga rangatiratanga raraunga Māori i whakapuaki a Te Mana Raraunga me te Kotahitanga Raraunga Taketake o te Ao.

Nō Wittgenstein: te rohe mātauranga. Te Tūtohunga 7 o te *Tractatus Logico-Philosophicus* — *”Ki ngā mea kāore e taea te kōrero, me noho puku”* — ehara i te tohutohu kia hinga. He ū ki te mātauranga: ka taea te whakarōpū i ētahi mea, ā, kāore e taea ētahi, ā, mā te whakaraerae i ēnei e rua ka puta he kōrero pōrangi. Ka whakawhāngai te anga o te *Tractatus* i tēnei ū ki ngā hanganga. Ko ngā whakapainga hangarau, te taurite taurira, te tiki pārongo, te ine — he wāhanga ēnei nō te ao ka taea te kōrero, ā, ka whakaaetia kia mahi motuhake ngā pūnaha AI o te tūāpapa i roto i taua wāhanga. Ngā taumata uara, ngā kawa ahurea, te tukanga tangi, te aronga rautaki, te whakatau i ngā painga kāore e taea te whakataurite — he mea nō te ao kāore e taea te kī, ā, kāore ngā pūnaha AI o te tūāpapa e whakaaetia kia mahi motuhake ki ēnei. Ka whakatinanahia te rohe ehara mā ngā tuhinga kaupapa here, engari mā te waehe: he ratonga BoundaryEnforcer e whakarōpū ana i ia momo whakatau, ā, ka aukati i te AI kia kaua e mahi motuhake ki ngā mea katoa kei waho atu i te rohe hangarau.²⁴

Mai i Berlin: te maha o ngā uara hei tikanga o te oranga tangata. Ko te whakapae matua a Isaiah Berlin, i whakawhanakehia puta noa i *ngā Two Concepts of Liberty* (1958), *Four Essays on Te Rangatiratanga* (1969), ā, i whakahuatia anō i te tino mārama i roto i *Te Whai i te Tino Whakaaro* (1988), ko te whakapae matua a Isaiah Berlin, i whakawhanakehia puta noa

i ngā tuhinga *Two Concepts of Liberty* (1958), *Four Essays on Liberty* 25²⁵26 E ai ki tā te kaituhi e mārama ana ki a Berlin, ā, e ai ki te whakawhanaketanga o te panui i roto i te rangahau whakamārama a John Gray,²⁷ Ehara te maha o ngā uara i te whanautanga. Ehara hoki i te whakaaetanga tuarua i puta i te wā ka uaua te whai anga whakakotahi. Koinei te āhuatanga ā-iwi tangata e mārama ai ngā kōwhiringa e hanga ana i te oranga tangata kia mōhiotia hei tangata, i te tuatahi. Ehara i te mea ka whakatau kōwhiringa tērā mea, i te āhua e whakatau ana te tangata; kāore hoki he oranga e kore e puta he whakawhitinga tūturu i waenga i ngā painga, ā, kāore e taea te tautuhi he oranga tangata tērā. Ko ngā uara maha, i tēnei panui, ko te mea e pupuri ana i te tangata kia noho hei tangata.

He mea ohorere te tohu mō te whakahaere AI. *Kāore he mahi whai take e whakatau i ngā taupatupatu i waenga i ngā uara kāore e taea te whakataurite.* Ehara i te mea noa te pūnaha e kī ana ka "whakapai" i ngā uara pēnei – kei te whakauru ia i tētahi taumata huna, ā, ka anga taua taumata huna ki te mea māmā rawa ki te ine. Ka whakawhāngai te anga *Tractatus* i te ū a Berlin i roto i ngā āhua hanganga motuhake e toru. Tuatahi, e mōhio ana ia ki ngā anga matatika e ono, he tino rerekē, kāore e taea te whakaiti — arā, te anga matatika ā-ture (deontological), te anga matatika hua (consequentialist), te anga matatika ā-āhuatanga (virtue), te anga matatika tiaki (care), te anga matatika hapori (communitarian), me te anga matatika hononga taketake (indigenous relational) — ā, kāore ia e whakatau i ngā taupatupatu i waenga i ēnei mā te whakamahi i ngā tauanga rorohiko, engari ka whakaatu ia i ia taupatupatu ki tētahi kaiwhakatau tangata, me tētahi pūrongo mārama mō ngā mea ka tūtohu ia anga, me ngā mea ka whakakorehia e ia kōwhiringa.²⁸ Tuarua, ka whakamahi ia i ngā kawenga taunakitanga kore-ōrite mō ngā panonitanga kua utaina ki ngā uara: he panonitanga e whakakaha ana i tētahi pae haumaruru, e hiahiatia ana he 60% noa iho o te māia, engari he panonitanga e whakangāwari ana i tētahi pae, me 85% o te māia, nā te mea kāore ngā hua o te hē e ōrite ana puta noa i ngā āhuatanga uara, ā, he nui ake ngā utu o ngā hē whakakahore i ngā hē whakapae i te wā e pā ana ngā uara.²⁹ Tuatoru, ā, ko te mea nui rawa atu mō te panui i muri i te hurihanga i whakarāpopototia i te Wāhanga 2.2, ka whakaarohia e ia te tiaki i te kanorau uara hei āhuatanga kore-huringa o te Papanga Tuatahi — kāore e whakaaetia kia whakakotahitia e te tūāpapa te kanorau ki tētahi taumata kotahi mā ngā tikanga katoa, tae atu ki ngā tikanga huarahi-kore o te whakapai ake kia piki ake te whai wāhi, te moni whiwhi, ngā ine tipu rānei, ā, mā ēnei ka mahia te whakakotahitanga i te wā roa, me te kore e mōhiotia.

Nō Ostrom: te whakahaere pokapū maha me ngā umanga whakauru. Ko ngā rangahau a Elinor Ostrom i toa ai i te Tohu Nobel, i roto i te *pukapuka Governing the Commons* (1990), i whakaatu i te whai hua o te whakahaere a ngā hapori i ngā rauemi tiritahi mā te mana whakahaere pokapū maha — arā, he maha ngā pokapū mana motuhake e mahi ana, kāore i raro i tētahi mana taumata, me ngā rohe mārama, ngā whakaritenga kōwhiringa ā-rōpū, te aroturuki, ngā whiu ā-taumata, te whakatau tautohetohe, me ngā umanga

whakauru.³⁰ Ka whakawhāngai te anga Tractatus i tēnei ū ki te hanga i te kāwanatanga o Village hei *hanganga ture ā-papa e toru*, ā, kei roto i tēnei: ngā mātāpono whānui o te taumata tūāpapa, ngā ture ā-hapori o te taumata kaipāmu, me ngā manakohanga whaiaro o te taumata mema; ka whakahaere ia taumata i raro i te mana kua tautuhia mārika, ā, ka whakauru ki ētahi atu, kāore e whakaiti, kāore hoki e muku i ngā papa kei raro. Ka tuhi taipitopito i te hanganga te Wāhanga 2.4.

Nō Alexander: te pakari hanganga hei uara pono. Ko ngā mahi a Christopher Alexander mō ngā reo tauira me te ariā hoahoanga (*A Pattern Language*, 1977; *The Nature of Order*, 2002–2004) e kī ana ka whakaatu ngā pūnaha ora i ngā āhuatanga hanganga e puta ake ana i te aro ki te hononga o ngā wāhanga ki te katoa, ā, kāore ēnei āhuatanga e taea te whakatutuki mā te whakamahere i runga iho.³¹ E rima o ngā mātāpono a Alexander kua whakaurua ki roto i te anga Tractatus hei ture ingoa: *Hononga Hōhonu* (ka whakakotahi ngā wāhanga mā te whakau ā-tōrite, ehara i te whakaaetanga takitahi), *Whakarerekētanga e Tiaki ana i te Hanganga* (ka tiakina e ngā panonitanga te hanganga matua), *Ngā Taumata Hei Kōwhiringa i Ngā Rohe* (ka whakahaere ngā pūnaha ora i runga i ngā taumata kaha, ehara i ngā pana rua), *Ora Tukanga* (ka whanake te anga i ngā wheako whakahaere, ehara i te whakaritenga kua whakaritea i mua), me *Kāore i te Motuhake* (kei roto i te hanganga te whakahaere, ehara i te mea kua tāpirihia hei whakaaro whakamutunga).³² Ko te mea whakamutunga o ēnei he tautoko i te kōrero mō te piri o ngā uara. Ka taea te karo i te whakahaere kua tāpirihia i raro i te pēhanga; kāore e taea te karo i te whakahaere kua whakaurua, nā te mea ko te hanganga e whakahaerehia ana te tūāpapa, koia anō te whakahaere. He kī tēnei mō te piri o ngā uara i whakatauhia hei mātāpono hoahoanga.

Mai i Te Ao Māori: kaitiakitanga me te rangatiratanga. Ngā anga rangatiratanga raraunga taketake, otirā ngā mātāpono o Te Mana Raraunga me ngā Mātāpono CARE mō te Whakahaere Raraunga Taketake,³³³⁴ e whakarato ana i tētahi pūrongo whānui mō te hononga i waenga i ngā raraunga, te hapori, me te mana whakahaere, ā, kāore ēnei mea e whakaratoa ana e ērā atu tikanga e whā i a rātou anake. Ko ngā raraunga mō tētahi hapori, nō taua hapori — ehara i te mea nō tētahi papa, nō tētahi kairangahau, nō tētahi kāwanatanga. Ka whakatinana te hapori i te rangatiratanga (te mana motuhake) ki āna ake raraunga; ka whakatinana te papa i te kaitiakitanga (te tiakitanga) — he herenga whakawhirinaki ki te tiaki, ehara i te mea ki te rangatira.³⁵ Ka whakawhāngai tēnei oati ki te anga o te Tractatus i runga i te hanganga: ko te wehewehe kiritaki, ko te mana whakahaere ā-hapori, me te mana manaaki motuhake i runga i ngā hanganga kei waho o te mana whakahaere o Amerika, ehara i ngā kōwhiringa hangarau e hāngai noa ana ki te rangatiratanga raraunga taketake. He whakatinanatanga ēnei o te rangatiratanga hei āhuatanga hoahoā kāore e huri.

2.4 Te hanganga ture ā-papa e toru

Ka whakatinanahia te anga Tractatus i Village mā te hanganga ture ā-papa e toru, ā, i roto i tēnei hanganga, ka herea ia papa ki te papa kei runga ake, ā, ka here hoki i te papa kei raro ake.³⁶

Papanga 1 — Ngā mātāpono tūāpapa whānui (kāore e taea te whakarerekē). Kua tuhia pakari ētahi here, ā, kāore e taea e tētahi kaipā, kaiwhakahaere, kaiwhakamahi rānei te whakakore. Kei roto i ēnei ko te wehewehe raraunga kaipā e whakatinanahia ana i te papanga uru raraunga; te tika o ia mema ki te wehe me āna raraunga i ngā wā katoa; ngā whakaritenga whakaaetanga mō te whakamahi raraunga; kāore he taumata uara i whakahauhia puta noa i te hāpori; me te mātāpono o te Kore-Wehewehenga anō — kei roto i te hanganga te whakahaere, ehara i te mea ka whakamahia hei tātari. Ehara ēnei i ngā kaupapa here ka taea te whakarerekē mā tētahi tukanga whakahaere. He here hanganga ēnei e whakarite ana kia kore rawa e taea, i runga i te hanganga, ētahi momo takahi ture.

Papanga 2 — Ngā mātāpono ture matua o te Kaihiri (ka taea te whakarite i roto i te Papanga 1). Ka tautuhi ia Kāinga i tōna ake ture matua i roto i ngā here i whakatūria e te Papanga 1: tōna āhua reo me tōna momo whakawhitiwhiti kōrero, ōna paerewa whakahaere ihirangi, tōna tauira whakatau (whakaaetanga whānui, nuinga, whakawhiwhia), tōna tūmataitinga me tōna mārama ngā tautuhinga, ōna kawa ahurea, ōna here āwhina AI. E whakakī ana tēnei paparanga i te maha o ngā uara o Berlin i roto i te mahi: he tika ā rerekētanga uara o ngā hāpori rerekē, ā, ka whakaae te papanga ki taua kanorau, kaua ki te whakahau i te kotahitanga. He kāinga whānau, he kāinga tiaki taiao e whakarato ana i ngā momo hāpori rerekē, ā, he rerekē tō rātou hanganga nā te mea he rerekē ā rātou uara. Kāore te tūāpapa e whakaaro ana he hapa tēnei rerekētanga kia whakatikahia; engari, e whakaarohia ana hei tohatoha matua o te mana i roto i te pūnaha.

Papanga 3 — Ngā manakohanga whaiaro o te mema (tāngata takitahi). Ka whakarite ia mema i āna ake manakohanga i roto i ngā here o te ture o tōna hāpori: te auau o ngā whakamōhiotanga, ngā manakohanga reo, ngā taumata āwhina AI, ngā tautuhinga taunoa mō te tūmataitinga o āna ake ihirangi. Ka whakawhiwhia ngā manakohanga o te Papanga 3 ki ngā paerewa hāpori o te Papanga 2, ā, ka whakawhiwhia ēnei ki ngā mātāpono whānui o te Papanga 1. Ka whakaae hoki te Papanga 3 ki tētahi pūnaha kua tuhia o ngā tikanga mātauranga e tekau mā toru (Simone Weil mō te aro, te Stoicism, te Tikanga Manaaki, te Confucian, te Pūtama, te Ubuntu, te Hūrae, te Īlama, te Māori, me ētahi atu) e ārahi ana i te āhua me te tuku o te āwhina AI, me te kore e whakakore i ngā tiaki hanganga o ngā Papanga 1 me te 2.³⁷

Ka whakatinana te hanganga i te pūmau o ngā uara. He pēhanga e whakaputa ana i te rere — he akiaki ā-hokohoko kia whakaitia te tūmataitinga, he panoni kaimahi e whakakapi ana i te kaiwhakatū ki tētahi kaiwhakakapi kua whakapaingia mō te whaiwhai, he tārua whakataetae e pana ana i te tūāpapa

ki ngā taupānga taunoa o Silicon Valley — kāore e taea e ia te whakapuaki i a ia hei panoni kaupapa here e waiho ana te waehera kāore i pa. Hei rere, me whakarerekē e te tūāpapa te Papanga 1, ā, kua tuhi-mārō te Papanga 1. He toru ngā kōwhiringa ā tētahi tūāpapa e rapu ana ki te rere i āna oati: whakarerekē i te waehera, wehe i te waehera kia whakahaere i tētahi tūāpapa kē, rānei whakaae ki te here. Ko te tuatahi ka kitea e te katoa; ko te tuarua he putanga; ko te tuatoru te hua e hiahia ana. Ehara i te mea ka whakamana te hanganga kia kore rawa e taea te rere. Ka whakaatu ia i te rere kia kitea, kia utu nui, kia taea te whai i ngā huarahi — koinei te mea nui rawa ka taea e tētahi oati hanganga.

2.5 He aha te take o tēnei mō te hōtaka rangahau

Ka tautuhi te hōtaka rangahau a Blockx i te mate ā-pāpāpori e puta ake ana ina whakamahia te mana o te tūāpapa hei whakatumatuma i ngā hiahia o ngā kaiuru o te pūnaha taiao kāore he ārai māketē hei tiaki i a rātou. Ko tōna tauira toru-mahi he taputapu hei kimi *i te wāhi* e whakaputahia ana te mate: i te mahi kaitiaki kuaha (te tango rawa te utu, te here-roto), i te mahi ā-ture (te tuhi ture ā-tahi me te kore reo a ngā kaiuru), i te mahi kaiwhakahaere kirimana (te pakanga painga hei rōpū me te kaiwhakarite ture). Ko te toronga ōritenga-whakawhānui a Li e pātai ana mō te tohatoha oranga ka puta, ā, e tūtohu ana i tētahi whakaaro tāpiri hei whakaaro mō te tātaritanga aukati-whakataetae.

Ko te kerēme o tēnei pepa, ko te mate e tautuhia ana e ēnei tātaritanga hei *hua e taea te matapae i te rere o ngā uara i roto i tētahi āhua whakahaere i muri i a Weber*. Ko ngā mahi e toru ngā wāhi e puta ai te rere; ko te kore ōritetanga tohatoha te āhuatanga e whakaputaina ana e te rere. Kei te whakawhanake te hōtaka rangahau i tētahi urupare tātaritanga. Kei te whakawhanake a Village i tētahi urupare hoahoanga. E tokorua ngā kaupapa e whai ana i taua āwangawanga kotahi — me herea te mana o te papaanga e ngā uara e whakawhānui ake ana i te whai hua o te māketē — ā, kei te whakawhanake rātou i ngā tikanga rerekē mō taua here. Kei te paparanga uara te whakakotahitanga, ehara i te paparanga hanganga anake. Ko ngā whakaritenga hanganga e tuhia ana e ngā Wāhanga 3 (te tūāpapa) me te 4 (te paparanga AI), me ngā tāruatanga i ngā Wāhanga 6 me te 7, me ngā paearu arotake i te Wāhanga 8, ehara i te kaupapa matua o te pepa. Ko ēnei te whakatinanatanga o te kaupapa matua. Ko te kaupapa matua, ka taea te hanga i te pūnaha e mau ana i ngā uara hei hoahoanga, ko te anga Tractatus a Village tētahi o ēnei hoahoanga, ā, i te taumata hāpori iti iho i te Big-Tech, ka taea te arotake i te hoahoanga mā ngā taonga pūtaka tuatahi, me te kore e whakapuaki e te papaanga ngā pārongo tauhokohoko tūmataiti.

Wāhanga 3 — Village hei take

E tuhi ana tēnei wāhanga i te whānuitanga, te rahi, me ngā ū ki te hanganga o te tūāpapa, me te taipitopito e hiahiatia ana e te kaipānui kia aromātai i te tauira mahi. Ko ngā ū e whakamārama ana i konei he whakatinanatanga o te anga Tractatus nō Wāhanga 2. Ka taea te whakamana i ia mea mā ngā taonga tūmatanui i whakahuatia i Wāhanga 8.

3.1 Rahi, whānuitanga, me te wāhanga

Ka whakarato a Village i ngā ratonga ki tētahi hunga whakarongo iti iho i te hunga nui o te hangarau matua, mā te hoahoa. Ka herea ia hapori kia kaua e neke atu i te 200 mema e te taumata hanganga; ko te whirihoranga tīmatanga he 25 mema, ā, mehemea ka piki ki te 200, me whai ohaurunga tāpiri motuhake. Ka ārahina ngā hapori e neke atu ana i te 200 mema ki te kotahitanga ā-taha-rua me ētahi atu Village, kaua ki te tipu mutunga kore i roto i tētahi kaipā.³⁸ Kāore tēnei pepa e whakapae mō te whai wāhi o Village ki ngā taumata papanga nui ake i te taumata rōpū 200 mema ia hapori; he tauira mahi tēnei i te taumata hapori, ehara i te taumata papanga i te aronga o ngā Kamupene Hangarau Nui. Ko te here 200 mema he ū ki ngā uara: kāore e taea e te tūāpapa te noho hei pokapū mō tētahi whatunga nui, nā te mea kāore ia e whakaae ā-hanganga kia whakawhānui i tētahi hapori kotahi kia whakawhiti i taua taumata, ā, kāore hoki e wātea ki a Village ngā pēhanga o te tipu nui e akiaki ana i ngā tūāpapa nui ake ki ngā tikanga tangohanga rawa.

E tautoko ana te tūāpapa i ngā momo hua tekau mā rua i tēnei wā — hapori, whānau, whakahaere, komiti, mema, pakihi, epikopā, kaikawe waka, tiaki taiao, diaspora, me ngā karapu — ā, ka whakarerekē ia momo i te pukapuka kupu atanga, ngā hanganga whakahaere taunoa, me te aro ki ngā āhuatanga mā te pūnaha kupu e whakahaere ana i runga i tētahi pūtake waehere kotahi. Ko te tikanga mō tētahi tātaritanga uara, ko ngā kawenata tohatoha a Village ka mahia i te paparanga hanganga, ehara i ia hua. Ka whakawhiwhia te kāinga whānau me te kāinga tiaki taiao ki ngā āhuatanga kore-huringa o te Papanga 1, ki te kotahi kawenata utu papatahi, me te kotahi here ā-ture ā-roto. Kei te Papanga 2 te kanorau.

Ko My Digital Sovereignty Ltd te kamupene whakahaere, he kamupene tūmataiti herea o Aotearoa nō tētahi kaiwhakatū kotahi. He 74 ngā tau o te kaiwhakatū, ā, kua whakapuaki ia ki te marea he ngoikoretanga hanganga tēnei, ā, ko te Pūtea Arohaehae kua whakamaheretia e te kamupene — kua ingoa ā-wā poto ko *Te Puna Rangatiratanga* (The Sovereignty Foundation) — hei whakatika i tēnei. Kua whakapuaki te āwhina AI (Claude, nō Anthropic) hei wāhanga o te āheinga whakahaere a te kamupene, ā, kua tuhia ki te whārangi '*Mō mātou*' o te kamupene.

3.2 Ngā oati hanganga

Ka taea te whakamana i ia o ngā oati kua whakahuatia i konei mā ngā taonga tūmatanui kua tohua. Ka whakamana te ripanga arotake hanganga i te Wāhanga 8 i te tikanga whakamana.

Wehewehenga hanganga o ngā kaiwhakamahi. Ia Village e wehewehea ana ā-hanganga i ia Village kē atu. Ka whakatinanahia te wehewehenga i te paparanga uru raraunga mā tētahi mono tātari kaiwhakamahi e whakamahia aunoa ana ki ia pātai pātengi raraunga. Ka whakahēhia ngā pātai whakawhiti-kaiwhakamahi hei tūāpapa hoahoa, ā, ka whakatinanahia tēnei whakahē i roto i te ara waehere, ehara i te mea i roto i ngā kaupapa here anake. He mātāpono whānui o te Papanga 1 tēnei, ā, ehara i te āhuatanga ka taea te whakaweto e tētahi kaiwhakahaere, e tētahi rangatira ā muri ake rānei, me te kore he panoni waehere e kitea ana i te putunga tūmatanui.

He utu papatahi mō ia hapori, kāore he utu tangohanga mō ia tūru. Ka utua e Village he utu papatahi mō ia hapori, kua mō ia mema, ā, he hōtaka whakatū e tuku ana i tētahi hekenga reiti 50% mō ake tonu atu ki ngā hapori tuatahi, ā, kua herea ki te kirimana kia kua e piki ake. Kāore he utu mō ia tūru, kāore he utu mō ia karere, ā, kāore he taumata utu e huna ana i muri i te tauranga mema i raro i te taumata hoahoa. Nō reira, ko te hiahia arumoni o te tūāpapa kei te pupuri mema i te taumata hapori, ehara i te tango painga i te tipu o roto i te pūnaha ora. Ko te tango i te akiaki a te kaitiaki-kuaha kia tango painga i te tipu he oati ki te ū ki ngā uara, e whakapuaki ana mā te hanganga utu.

Herenga mema mā te hoahoa; kotahitanga hei whānuitanga. Ka tipu ngā hapori ki te 200 mema mā ngā tāpiritanga, ā, i tua atu i tērā, ka puta te whakawhānuitanga mā te kotahitanga, ehara i te tipu kotahi-nui. He kōwhiringa hoahoa whai whakaaro te here 200-mema, hei hoahoa i raro i ngā kamupene hangarau nui. Ko te kotahitanga i waenga i ngā hapori he hanganga kirimana ā-taha-rua i waenga i ngā hapori e rua, ā, ko te tūāpapa e whakarato ana i te hanganga, engari kāore e noho hei taha ki te kirimana.

Te rangatiratanga o te kaiwhakarato. Kei waho i te mana whakahaere o te United States te hanganga whakahaere a Village. Ka whakahaere ngā tūmau whakaputa i runga i OVH (Wiwī) mō ngā kiritaki o Europi, me Catalyst Cloud (Porirua, Aotearoa) mō ngā kiritaki o Oceania me Asia-Pasifika. Ko Airwallex (NZ) Limited te kaiwhakarato utu. Kāore te kaiwhakahaere e whakamahi i a Stripe, Google Cloud, AWS, Microsoft Azure, Cloudflare, me ētahi atu ratonga whakahaere hōtaka kei te United States. Mā te Ture Kapua o Amerika (US CLOUD Act) e whakawhānui ana i te mana whakahaere a Amerika ki ngā hanganga e rangatira ana a Amerika puta noa i te ao; mā te whiriwhiri i ngā ratonga whakahaere hōtaka kāore i te United States, ka waiho e te tūāpapa ngā raraunga e puritia ana e ia ki waho o taua mana whakahaere hei take hanganga, ehara i te take tautohetohe ā-ture.

Whakawhāititanga ā-ture ā-tinana. Ka whakaputa a My Digital Sovereignty Ltd i tētahi ture matua kua taura, he maha ngā reo, hei taputapu matua mō te whakawhāiti ā-tinana o te tūāpapa.³⁹ Ko te putanga o nāianeī (1.2.0, e whai mana ana i te 2025-11-20) kua whakaputaina ki te reo Ingarihi, Tiamana, Wīwī, Holani, me te reo Māori. Ka whakamārama te ture matua i ngā mea e ū ana te tūāpapa ki a rātou me ngā mea kāore rātou e whakaae ki te mahi — tae atu ki ngā whakahē mō te hoko raraunga, te whakangungu taura i runga i ngā ihirangi mema, te aroturuki whanonga, te here rangatōpū, me te uru a ngā kaiwhakahaere tūāpapa ki ngā ihirangi. He whakarāpopototanga o ngā mātāpono matua e ono a te kaiwhakahaere kua whakaputaina hoki ki te whārangi *Uara*,⁴⁰ ā, he tirohanga poto ake mō ngā tūnga ā-arotau i raro i ngā kaupapa e whā — arā, te mana tangata, te rangatiratanga raraunga, te haporī tuatahi, me te mārāma tūturu — kua whakaputaina ki te whārangi *Arotau*.⁴¹

Ka taea te kawē katoa i ngā raraunga me ngā mana putanga. Ka taea e ngā mema me ngā haporī te wehe i ngā wā katoa, ā, ka kawē ā rātou raraunga ki waho i roto i ngā hōputu tuwhera. Ko te oati mō te muku i roto i te ture tūtohu e whakarite ana, ina mukua tētahi ihirangi, ka tangohia atu i ngā pātengi raraunga whakaputa, i ngā tārua, me ngā pūnaha AI — ehara i te tohu noa i te "mukua" i te wā e mau tonu ana ki tētahi wāhi ka taea te uru. Ko te wehenga me te muku he oati kua whakaputaina, ā, e tautokohia ana e te wāhere ka taea te arotake i te putunga raraunga.

3.3 Te tū ārahitanga me ngā oati kua whakamaheretia

E toru ngā oati kua whakaputaina hei *whakaaro*, ehara i te *mea kua tutuki*, ā, kua whakamōhiotia pēnei.

Te Puna Rangatiratanga (kua whakamaheretia). Kua rāhuitia e te kaiwhakahaere te ingoa o *Te Puna Rangatiratanga*, ā, kua whakaritea he anga ture mō tētahi Trusti Atāwhai o Aotearoa hei pupuri i te ture matua, te anga whakahaere o Tractatus, me ngā kawa whakawhitinga mana. Kei runga i te pakeketanga o ngā hononga te whakatū ā-ture, kia whai hōhonutanga tūturu te whakahaere o te Trusti, kua hei anga ā-ture noa iho; kāore anō kia whakaurua ā-ture.

Poari Tohutohu Hangarau (e whakamaherehia ana). Kua whakaputaina e te kaiwhakahaere te kaupapa mō tētahi Poari Tohutohu Hangarau motuhake, ā, he ū ki te whakarite kia rahuitia te 50% o ngā tūru mō te māngai taketake, mō te māngai o te Tonga o te Ao rānei. Kei te hanga tonu te Poari; kāore anō ngā mema kia whakapuaki ā-tūmatanui, ā, ko te tūnga kua whakaputaina e te kaiwhakahaere, ko te mea ka whakamōhiotia te Poari ina ka nui tōna hōhonutanga kia whakapono ai te katoa.

Reo whakahaere haporī (e whakamahere ana). Kua whakaputaina ngā tikanga hei whai reo mā ngā kiritaki o Village ki te whakahaere i te papa, ā, ka whakawhiwhia te taumaha ki ngā koha o ngā ohaurunga kua kohia, hei ariā kei te whakawhanakehia, ā, kāore anō kia hangaia. Ko te tūnga tūmatanui o

te kaiwhakahaere i tēnei wā, he mea pea ka whakawhanakehia tēnei tikanga mā te mahi ngātahi me ngā kairangahau whakahaere Māori, kaua mā te mahi takitahi.

Ko te whakaputa tūmatanui i te tūnga whakamahere he nekehanga kia ū ki ngā uara: ia o ngā oati kua whakamaheretia, mēnā ka hangaia, ka aro ki tētahi āwangawanga o te Papanga 1 kāore e taea e te hanganga anake te whakatau i tēnei wā. E tono ana ki ngā kaipānui kia whakataua a Village i runga i te hanganga kua whakatinanahia me te pono o ngā toronga kua whakamaheretia.

Wāhanga 4 — Te paparanga AI: te AI o Village hei paparanga reo ā-horopaki

4.1 He aha te take o te paparanga AI mō te tēsi

Ko ngā oati hanganga i tuhia i te Wāhanga 3 e whakaahua ana i te taha *papanga* o Village. Ka tika pea ka pātai te kaipānui mēnā ka mutu te whakapae i reira. Kāore e mutu, ā, kāore e taea, mō tētahi take motuhake o tēnei wā: ka whakahaerehia te papanga mā ngā pūnaha atamai hangarua, ā, ko ēnei pūnaha he paparanga whakatinana i reira ka rere ngā uara, ka mau rānei. He papa e herea ana ōna kaiwhakahaere tangata e tōna hanganga ture, engari kāore i herea tōna paparanga AI, he papa e iti noa ana te piri o ōna uara, ahakoa i te pai rawa atu. Ko te pātai e whakawhanake ana te hōtaka rangahau i ngā taputapu tātari mōna — arā, mēnā ka whakamahia te mana o te papa hei whakahē i te oranga o ngā kaiuru e whakawhirinaki ana ā-hanganga — kei te piki haere hei pātai mō te AI e *whakawhiti ana i te pāhekoheko a te papa ki āna kaiuru*, ehara i te mea mō te arorau pakihī kua tuhia ki ngā waehere tuku iho anake.

E tuhi ana tēnei wāhanga i ngā mahi a Village i te paparanga AI. Nā te Tuhinga 5 o te raupapa i whakaputaina e te kaiwhakahaere, *AI Governance for Communities*, i tiki mai ngā kōrero matua, arā, ko *Village AI hei Paparanga Reo ā-Tūnga* (Paenga-whāwhā 2026),⁴² e whakarārangi ana i ngā mātāpono hoahoa, te hanganga, te anga whakahaere, te tikanga whakangungu, me te tū ārai haumaruru o te wāhanga AI o te tūāpapa. Ehara i te whāinga o tēnei wāhanga kia tāruatia katoatia te Tuhinga 5, engari kia whakanohia ki roto i te tautohetohe mō te ū ki ngā uara o te Wāhanga 2, ā, kia whakamārama he aha ngā mea e tika ana kia tangohia e te kaipānui o te hōtaka rangahau i reira.

4.2 He aha te Papanga Reo Whakaritea

Ka whakaurua e Te Tuhinga 5 te kupu *Papanga Reo ā-Tūnga*(SLL) hei ingoa mō tētahi taura reo iti, i whakangungua ā-rohe, e rere ana i runga i ngā hanganga e whakahaerehia ana e te hāpori. He motuhake te tuhinga mō te kōwhiringa kupu: *"i roto i te ariā, ko te mātāuranga ā-tūnga e tohu ana ki te mārāma e puta ake ana i tētahi horopaki motuhake, i hangaia e ngā hononga motuhake, ngā hūtori, me ngā uara. He Papanga Reo Whai-ā-Tūnga he AI e mōhio ana*

kei hea ia, ko wai āna e ratonga ana, me ngā mea kāore ia e tika kia mahia — nā te mea nā te hapori i whakangungu i a ia i whakatau i ēnei whakatau i runga i te mārama.”⁴³ Ko te kupu whakamārama 'iti' i whiriwhiria anō hoki kia pērā: ”he tauira iti rawa kia taea te whakahaere i runga i ngā taputapu māmā, he tauira ka taea e te hapori te whakahaere tūturu. He tauira i whakangungua ki ngā ihirangi a te hapori, me te whakaaetanga a te hapori, i raro i te mana whakahaere a te hapori, he tauira ka taea e te hapori te tirotiro, te whakarerekē, me te whai kawenga i tōna whanonga.”

Ka whakamārama te hanganga i roto i te Tuhinga 5 i te taumata whakahaere, ehara i te taumata hangarau. E rima ngā āhuatanga whai take mō tēnei pepa.

Mōdeli tūāpapa taumaha tuwhera. Ka tīmata te AI o te Hāpori i tētahi turanga taumaha-tuwhera — ināianei ko te whānau Qwen2 14-piriona-tātai nō Alibaba, i tīpakohia i muri i te arotakenga i runga i ngā take e āhei ana ngā kaitātari ki te tirotiro i ngā taumaha o te tauira, ka rere te tauira i runga i ngā taputapu a te hāpori me te kore whakawhirinaki ki tētahi kaiwhakarato kotahi, ā, ka taea te whakangāwari ake i te tauira me te kore whakaaetanga, me te kore mōhiotanga rānei a te kaiwhakawhanake. E whakaatu ana te Tuhinga 5 kua whakarerekētia kē te kōwhiringa o te tauira tūāpapa i roto i ngā mahi: i te tuatahi, i whakamahi a Village i te whānau Llama a Meta i mua i te whakawhiti ki Qwen2 i runga i te take o te kaha ake o tōna mahi maha-reo, otirā mō te reo Māori me ngā reo o Europi e tautokohia ana e te papanga. Ko te kōwhiringa o te tūāpapa he whakataunga whakahaere, ā, e whakahaere ana te kaiwhakahaere i taua kōwhiringa hei pērā.

Ngā kaitāuta whakatikatika ā-taumata-iti, whai hua ā-paramita. I runga i te tūāpapa taumaha-tuwhera, ka tāpiri a Village i ngā paparanga kaitāuta angiangi i whakaputaina mā te whakatikatika ā-taumata-iti whai hua ā-paramita. Ka whakamunatia e ia kaitāuta ngā uara hapori, ngā here whakahaere, me ngā mōhiotanga ā-rohe motuhake mō tōna momo hapori. E kī ana te Tuhinga 5 e toru ngā painga whakahaere o tēnei huarahi: he tino iti ake te utu whakangungu o ngā kaitāuta i ngā tauira katoa, ā, nā reira ka waihanga i tētahi AI rangatira-hapori ka whai hua ā-pūtea i te taumata hapori; ka taea te whakahou i ngā kaitāuta i te wā e whanake ana ngā uara hapori, me te kore e whakangungu anō mai i te tīmatanga; ā, ka taea te whakahoki tonu i ngā kaitāuta mēnā ka puta he whanonga kāore i hiahiatia i te whakangungu. Ko te āheinga whakahoki he āhuatanga mauroa o ngā uara: he papa e kore e taea te whakahoki i tōna AI, ā, ka rereke wawe tōna AI i mua i āna tukanga whakahaere e taea ai te whakatika.

Motu motuhake mō ia momo hua. Kāore a Village e whakahaere i tētahi tauira AI kotahi hei whakarato ki ngā kaiwhakamahi katoa. E whakaatu ana te Tuhinga 5 ka whakamahi te tūāpapa i ngā tauira motuhake mō ia momo hua, ā, kua whakangāwarihia ia tauira ki ngā kupu motuhake, ngā hanganga whakahaere, me te horopaki ahurea o tōna momo hapori. E iwa ngā motuhake e whakaputaina ana i te wā i whakaputaina ai te Tuhinga 5: whānau, epikopō, hapori, whānau, pakihī, me ētahi atu motuhake e whā ka whakahohehia anake

ina puta te kiritaki tuatahi o taua momo (tiaki taiao, diaspora, karapu, alumni). He tauira hapori 14B hei huarahi whakahoki mō ngā momo hua kāore he motuhake ā rātou ake, ā, mā tētahi InferenceRouter e whakahaere te rerenga, e tīpako ana i te tauira tika i runga i te momo hua o te kaiwhakamahi e tono ana. He mārāma te Tuhinga 5 he hoahoa whakahaere tēnei, ehara i te whakapai mahi noa iho: *"ka whakangungua te tauira mō ia hapori ki ngā ihirangi e tino rite ana ki āna ake, ehara i te kaiāwhina whānui kotahi mō te katoa."*

Te rangatiratanga raraunga hei here hoahoanga. Ka noho tonu ngā ihirangi hapori ki runga i ngā hanganga o te hapori. Ka tangohia ngā raraunga whakangungu i ngā ihirangi ake o te hapori, ā, ka penapenahia ki runga i āna ake hanganga. Kāore he pātai, he whakautu, he raraunga whakamahinga rānei e tukuna ki ngā pūnaha o waho. Kāore e whakaarohia e Te Tuhinga 5 hei kaupapa here ka taea te whakarerekē mā te tahua tautuhinga, engari hei here hanganga: *"ka taea e te hapori te whakamana i ēnei kerēme nā te mea ka taea te arotake i te pūnaha katoa."*

He hekenga ātaahua. Ka tautoko te hanganga rerenga rori i te hokinga mai i te tauranga mutunga GPU matua ki tētahi tauira e whakaratohia ana e te CPU i te kounga kua whakaitia, kua e hē puku, ā, ka whakamōhiotia te hapori ina puta tēnei. Ko te mārāma mō ngā here āheinga he ū ki te whakahaere i raro i te anga o te Tuhinga 5.

4.3 Te paparanga AI e whakahaerehia ana i raro i te anga Tractatus

Ka pā ngā here hanganga o te Wāhanga 2.3 me te Wāhanga 2.4 ki te paparanga AI, pērā tonu i tō rātou pā ki te arorau o te papa. Ka whakamārama mārika tēnei wāhanga iti i ngā ōritenga.

Ka whakatinanahia ngā rārangi whero pakeke o te Papanga 1 i roto tonu i te AI. E rārangi ana te Tuhinga 5 i ngā rārangi whero pakeke e whā kua whakaurua hei here hanganga, ehara i te aratohu ka taea te whakakore: me kua te AI e whakatau mō ngā tāngata; me kua te AI e hanga kōtaha whanonga mō ngā mema; me kua te AI e whakapai ake i te whai wāhi; ā, me kua te AI e whakapuaki i ngā ihirangi a tētahi mema ki tētahi atu me te kore whakaetanga. Ka hāngai ia o ēnei ki tētahi āhuatanga kore-huringa o te Papanga 1 o te Tractatus, i tuhia ki te Wāhanga 2.4 o tēnei pepa. Ko te tuatahi e hāngai ana ki te rohe ā-Wittgensteinian mō ngā mea ka taea te kī/kāore e taea te kī (Wāhanga 2.3) — kāore e taea te kī ngā uara me ngā whakataunga kua whakakīa ki ngā uara i te aronga o te Tractatus, ā, nō reira kāore e taea te tuku ki ngā mīhini. Ko te tuarua me te tuawhā e hāngai ana ki ngā āhuatanga mau tonu o te wehewehe-kiritaki me te kore aroturuki-kiritaki-whakawhiti, e whakatinanahia ana hoki i te paparanga uru raraunga o te tūāpapa. Ko te tuatoru e hāngai ana ki te whakahē a te kaiwhakahaere ki te whai i tētahi mahi whāinga whai hononga, he hua tika tēnei nō te maha-uara a Berlin — pērā i tā Wāhanga 2.3 e whakamārama ana, ka whakauru tētahi pūnaha e whakapai ana i ngā uara kāore e taea te whakataurite i tētahi taumata huna, ā, ko te

whakahē a Village ki te whakapai mō te whai hononga ko te whakaaturanga o taua whakahē i te paparanga AI.

Ka whakamana ngā Kaiwhakahaere Kaitiaki i ngā hua AI i tētahi rohe mātauranga rerekē i te wāhanga whakaputa. Koinei te hua whakahaere tūturu o te wehenga i waenga i ngā mea ka taea te kī me ngā mea kāore e taea te kī a Wittgenstein, pēnei i tā Wāhanga 2.3 e whakamārama ana. I tuhia ngā Kaiwhakahaere Kaitiaki i roto i te *”Guardian Agents and the Philosophy of AI Accountability”*.⁴⁴ whakamana i ngā hua AI mā te whakamahi i te ōritetanga whakaurunga, ehara i te whakapae whakaputa anō. Te ine, ehara i te whakarōpūtanga. Ko te hanganga pērā i te wāhanga AI e whakaputa ana i ngā whakautu e mahi ana i roto i tētahi rohe e pā ana ki ngā mea kāore e taea te kī, ā, ko te wāhanga e whakamana ana i aua whakautu e mahi ana katoa i roto i ngā mea ka taea te kī. Ehara te kaiwhakamana i tētahi atu kaikōrero — he taputapu ine ia. Koinei te piri o ngā uara i te paparanga whakatau.

Ko ngā kaitāuta mō ia hapori te whakatinanatanga o te Papanga 2 i te turanga AI. Pērā i te tautuhinga a ia Hapori i tōna ake ture-tūtohu ā-hapori o te Papanga 2 i roto i ngā here whānui o te Papanga 1 i whakamārama ai i te Wāhanga 2.4, he kaitāuta motuhake tō ia Hapori e whakakōwa ana i ngā uara o te hapori, ngā kawa ahurea, me ngā rohe whakahaere ki roto i ngā whanonga a te AI. Ko te motuhake ā-momo-hua he maha-āhua kua whakatinanahia i te turanga AI: ehara i te mea he paparanga kaupapa here kei runga i tētahi tauira kotahi e hāngai ana ki ngā mea katoa, engari he tauira kua whakangungua rerekē, ā, ko āna whakataunga i te wā whakangungu e whakaata ana i ngā uara o te kāinga whānau. Ko tēnei te whakautu o te paparanga AI ki te kōrero a Berlin i te Wāhanga 2.3, arā, kāore he mahi whāinga motuhake e whakatau i ngā pakarutanga uara puta noa i ngā uara kāore e taea te whakataurite: Kāore a Village e whakahaere i tētahi AI kotahi me tētahi taumata uara, engari ka whakahaere ia i ngā AI maha kua whakangungua ki ngā huinga uara rerekē.

Ko te whakangāwari whakahē ki te hē ā-ipurangi he piringa uara e whakamahia ana ki te tukanga whakangungu anō. E mārama ana te Tuhinga 5 e kawea ana ngā tauira pūtake i ngā whakaaro huna e whakaata ana i ngā tatauranga o ngā kaiwhai wāhi tino kaha o te ipurangi, ā, ka taea e ēnei whakaaro te taupatupatu ki ngā uara o te hapori. Ko te urupare a te kaiwhakahaere, pēnei i tā te Tuhinga 5 e whakamārama ana, he mārama whakangungu whakatūpatu, ehara i te whakahaere: i te wā e whakaarohia ana e te tauira pūtake he mea hiahia mutunga kore te whai hua, ka taea e te whakangungu taipitopito te whakarerekē i te taunoa kia nui ake te whakanuia o te hohonutanga i roto i te horopaki hapori; i te wā e whakaarohia ana e te tauira pūtake ko te whakawhitiwhiti kōrero tūturu te reo e manakohia ana, ka taea e te whakangungu taipitopito te whakarerekē i te taunoa kia kitea ngā huarahi huarua hei tohu whakaute, ehara i te huarahi karo. Ka whakaahua te Tuhinga 5 i te ū ki te kaupapa kia whakaata te AI i ngā uara o te hapori, kua ko ngā uara o te ipurangi, ā, e kī ana ia ko ēnei uara kāore e hāngai ana ki tētahi hapori motuhake.⁴⁵ Ko te kōwhiri i ngā mea hei whakangungu whakahē i

a rātou he whakataunga whakahaere, ā, ka tuhia, ka arotakehia mā ngā tukanga a te hāpori, kāore i tukuna ki ngā kaihanganga tauira.

Ko te whakaaetanga he kōwhiringa-uru, he taipitopito, he taea te whakakore, ā, he mōhio. E whakaahua ana te Tuhinga 5 i te pūnaha whakaaetanga mō te whakangungu AI i runga i ngā ihirangi mema i ēnei kupu e whā tonu nei: kōwhiringa-uru (ko te taunoa he aukati), taipitopito (ka taea e ngā mema te whakaae ki ētahi whakamahinga engari ehara i ērā atu), ka taea te whakakore (ka whakaoho te tangohanga i te whakahou whakangungu me te kore e whai wāhi taua ihirangi), me te whakamōhio (he whakamārama mārama, kāore he hangarau, mō te tikanga o te whakangungu). He āhuatanga mau tonu ngā uara ēnei i te paparanga hononga mema: kāore e taea e te papaanga te huri ki te whakapae kei a ia te whakaaetanga kāore i a ia, nā te mea e hiahia ana e te wāhanga he tohu whakaaetanga mō ia kaupapa i mua i te whakauru a tētahi oma whakangungu i taua ihirangi. Ko ngā kāwai toru o te whakaaetanga mō ngā kaupapa AI e tuhia ana i tēnei wā i roto i te tauira whakaaetanga a te kaiwhakahaere, arā ko `ai_triage_memory`, `ai_ocr_memory`, me `ai_summarization_memory`; ka taea e ia mema te whakaae, te whakahē rānei i ia kotahi.

4.4 Te tere o te panoni āheinga AI hei horopaki whakamātautau

Kei roto i te Tuhinga 5 he wāhanga mō te haumarutanga i roto i tāna e kī nei *he ao i muri i te Mythos*. Ko te tohutoro ki te whakapuakitanga a Anthropic o Āperira 2026 o tētahi tauira i whiriwhiria e rātou kia kaua e tukuna ki te marea, nā te mea, e ai ki te whakapuakitanga, ka taea e ia te kitea ngā ngoikoretanga pūmanawa i te taumata whānui puta noa i ngā pūnaha whakahaere matua katoa me ngā kaitirotiro paetukutuku, ā, ka whakaputa wāhanga urunga e mahi ana hei whakaeke i aua ngoikoretanga. I tukuna ēnei āheinga mā tētahi hōtaka tuku whakahaere (Project Glasswing) ki ngā kamupene hangarau nui e whā tekau pea, kia taea e rātou te rapu me te whakatika i ā rātou ake ngoikoretanga i mua i te whānuitanga o ērā atu āheinga ōrite. Ka tohu a Tuhinga 5 i ēnei kōrero pono, ā, ka whakaputa i tētahi hua whaihua ohorere: ka taea e te katoa, i roto i te kotahi, i te rua rānei tau, te tautuhi me te whakamahi i ngā ngoikoretanga huna o te pūmanawa — he mea i mau ki ngā kaupapa ā-ipurangi a ngā whenua i mua — mēnā he uru ā rātou ki tētahi tauira whai pūkenga. Ka heke te ārai ki te uru mai i ngā miriona tāra me ngā tau o te mātanga ki tētahi tono tauira kotahi.⁴⁶

Ehara i te kaupapa o te whakahua i tēnei i roto i tēnei tuhinga kia whakapuaki whakaaro mō te tere o te panoni o te pūkenga whakaaro AI, kāore hoki kia matapae i tētahi hua motuhake. He whāiti ake te kaupapa: *ko te kōrero pono e pā ana ki te tere o te panoni o te pūkenga AI, i tuhia ki ngā whakaputanga matua e whakahuatia ana e te Tuhinga 5, he wāhanga nō te horopaki e whakahaerehia ana ai ngā mahi tātaritanga a te hōtaka rangahau*. He hōtaka rangahau e whakawhanake ana i ngā taputapu ture me ngā taputapu tātaritanga mō te mana papanga, ā, kei te mahi ia i te wā e huri haere ana te tūāpapa e

whakamahia ana te mana papanga mā roto i a ia — arā, ko te AI e whakawhiti kōrero ana i waenga i te papanga me ōna kaiuru — he whāinga e rereke ana. Kāore tēnei kōrero e whakatau i tētahi pātai ariā, engari ka whakapūmau i te pātai hanganga — *ko wai e here ana i te AI, pēhea, ā, mā he aha te tikanga?* — he pātai o nāianei, ehara i te mea ā muri ake. Ko te tirohanga a te kaiwhakahaere, i tuhia puta noa i te raupapa AI Governance for Communities, ko te iti rawa o ngā whakautu hanganga ki tēnei pātai, ā, ko te ū o ngā uara ki te paparanga AI tētahi o ngā huarahi iti ka taea e tētahi papa ā-hapori te whakatinana, me te kore e tatari kia tae mai ngā ture, ngā taputapu haumaruru whānui rānei.

Ka tuhi hoki te Tuhinga 5 i te urupare tūnga haumaruru motuhake a te kaiwhakahaere ki te horopaki i muri i a Mythos: ngā arotake whakawhirinaki, he kaupapa here huringa whakahōu 48-haora, te aroturuki pono kōnae AIDE i runga i ngā tūmau whakaputa e rua, te whakamunatanga i te wā e tau ana mā te whakamahi i te AES-256-CBC, me te kore tonu o ngā whakawhirinaki kapua US — e ai ki te tuhinga *e ai ki te tuhinga, he tūnga haumarutanga tēnei hei tāpiri atu ki te tūnga rangatiratanga*, i runga i te whakaaro *”ehara te whāinga iti, kua tino tiakina, i roto i te awhe pahūtanga o ngā āhuatanga whakamahi whānui e āhei ana ngā pūkenga kāwai Mythos.”*⁴⁷ Ko ēnei he whakautu whakahaere tūturu kua tuhia ki ngā pūrongo tūmatanui, ehara i ngā tūnga whakapae.

4.5 Te hāngaitanga ki te hōtaka rangahau

Ka tātaritia e te hōtaka rangahau te mana o te papanga. Kei te piki haere te paparanga AI o te papanga hei pūnaha e whakamahia ana te mana o te papanga ki runga i ngā kaiuru o te pūnaha taiao — arā, te paparanga whakawhiti i waenga i ngā ture o te papanga me ngā wheako a ngā kaiuru ki aua ture. Ko te pātai *”me pēhea te here i te AI o tēnei papanga?”* nō reira, kei te noho hei wāhanga o te pātai *”e pēhea ana te here i te mana o tēnei papa?”*; ā, ko tētahi pepa e mapi ana i ngā ū ki te hanganga a Village ki runga i te tauira mahi e toru, ā, kāore i tirohohia te paparanga AI, ka mapi noa i te haurua o te tauira mahi.

Ko te huarahi SLL a Village e whakaatu ana i tētahi whakautu hanganga ki te pātai: kei herea te AI e taua hanganga ture e here ana i te papa. Ko ngā rārangi whero pakeke o te AI he mea mau tonu o te Papanga 1. Ko te whanonga a te AI mō ia hapori he whakatinanatanga ture o te Papanga 2. Ka mahi te whakamana a te AI i tētahi rohe mātauranga rerekē i tōna waihanga, e tiaki ana Te rohe a Wittgenstein. Kei raro i te whakaaetanga me ngā tukanga whakahaere a te hapori te whakangungu a te AI. Ka whakangungua anō ngā hiahia a te AI kia whawhai ki te rere ki tawhiti o te ipurangi. Ā, ka rere te paparanga katoa i runga i ngā hanganga e whakahaerehia ana e te hapori, ā, ka taea te tiroiro, te whakarerekē, ā, mehemea e tika ana, ka taea te huri whakamuri.

Mō te hōtaka rangahau, he mea whai tikanga tēnei mō tētahi take motuhake:

he taunakitanga tūturutanga tēnei ka taea te whakamātautau i te anga pūtake AI ki taua hanganga mau tonu ki ngā uara kotahi me te papaanga, me te kore e tatari kia tae mai ngā ture o waho, ngā taputapu haumaruru whānui rānei. Kāore e whakatau ana mēnā e ranea ana taua hanganga. Engari, ka whakapūmau tēnei kāore te pātai i te tere rawa. Pērā i ngā kerēme katoa i roto i te pepa, he taunakitanga ā-tuhi tā te kaiwhakahaere, ehara i te mea ā-ariā — ka tonoa te hōtaka rangahau kia aromatawai, kia arotake, kia whakawhānui, kia whakakahore rānei i te huarahi kua tuhia, i runga i āna ake tikanga.

Wāhanga 5 — Ngā mātāpono e takoto ana i runga i te reo Māori i roto i te paparanga kanorau o te Tractatus

Ko te ū ki te maha-āhuatanga o te anga Tractatus (nō Berlin, i whakatinanahia i roto i te hanganga toru-ā-papa o Wāhanga 2.4) ehara i te whakapaipai i runga i tētahi anga Hauāuru. He ū nui tēnei, ā, ko tētahi o ngā pūnaha uara maha e tautokohia ana e te tūāpapa he anga i ahu mai i ngā tikanga Māori, ā, kei te whakamahia kaha ināiane. Ka ingoa i tēnei wāhanga ngā mātāpono i whakatūria i runga i te reo Māori, ā, ka whakaatu me pēhea ia mātāpono e whakatinanahia ana i Village hei ū ki te taumata tuatahi, ehara i te āhuatanga noa.

Ko Rangatiratanga — te mana me te whakahaere motuhake i tō ake rohe — te mātāpono whakahaere o te wehewehe manuhiri o te Papanga 1. Ka noho tonu ngā raraunga o te hapori i raro i te mana o taua hapori. Ka whakahaere te tūāpapa i te kaitiakitanga (tiakitanga), ehara i te rangatiratanga. Ka puta te Rangatiratanga i roto i te arotake hanganga o te pepa hei āhuatanga hoahoa tuatahi, kāore hei tapanga i tāpirihia ki tētahi whakataunga hangarau kua oti kē.⁴⁸

Ko te Whakapapa — he mātauranga hononga e hono ana i te tangata ki a rātou anō, ki ō rātou tīpuna, me tō rātou whenua — kua whakatinanahia hei tauira mō te whakamōhiotanga kaiārahi i roto i te hanganga ratonga tautoko a Village. Ka kitea te mana o te kaiārahi (tū, mana whakahaere, whakamanatanga) i roto i te whakapapa o ngā kāinga i āwhinatia e ia kia whakatū, ehara i te mea mā ngā tohu kēmu, mā ngā ine tau rānei. Ko te ū ki te whakaputa a te kaiwhakahaere, ko te whakamanatanga ka tohaina mā te whakapapa, ehara mā te ine.⁴⁹

Ko te Whanaungatanga — te whanaungatanga mā te kaupapa kotahi — ko te tūāpapa hononga o te tauira kotahitanga. Ko te kotahitanga i waenga i ngā kāinga he hanganga hei kirimana ā-taha e rua i waenga i ngā hapori kua whiriwhiri kia noho hononga, ehara i te whakawhitinga hokohoko i runga i tētahi māketete e whakahaerehia ana e te papa. Ka whakatau te papa kia kaua e uru hei hoa tauhokohoko i roto i ngā hononga e whakamanahia ana e ia.

Kaitiakitanga — te tiakitanga me te rangatōpū — ko te anga matatika e

whakamahia ana e te kaiwhakahaere hei whakamārama i te hononga o te kaiwhakatū ki te tūāpapa i te wā i mua i te Whakawhirinaki. Ko te kaiwhakatū te kaitiaki o nāianeī o te tūāpapa, ā, ko te hiahia kua whakaputaina kia whakawhitia te rangatōpū ki te Whakawhirinaki Atawhai kua whakamaheretia ina ka nui te hōhonutanga whakahaere o te Whakawhirinaki kia whakapono ai, kua hei tohu noa iho.

Ko te Koha — te utu-ā-kōha — ko te tauira uru kua whakaputaina e te kaiwhakahaere mō ngā hapori taketake i waho o Aotearoa i ngā wāhanga whakamutunga o tōna mahere ara, ā, e whakaata ana i tētahi oati uara kia wehe te uru ki ngā ratonga tino hira o te tūāpapa i te āhei ki te utu i te utu māketē, ā, kia hono anō ki te koha ā-hononga.⁵⁰

Ehara rātou i te whakapaipai i runga i tētahi anga Pākehā; he anga tohatoha kāore i te Pākehā, ā, kei reira ka rere ngā painga e ai ki te herenga hononga, ehara i te whakakī māketē, ā, i roto i tēnei anga ka tohaina te whakamana mā te whakapapa, ehara mā ngā ine. I te taumata hapori iti iho i te Big-Tech, ka whakatinanahia e tētahi anga e takoto ana i runga i ngā tikanga Māori tēnei momo te nuinga o ngā whāinga tohatoha i whakawhanakehia ai e te hōtaka rangahau ā-ture, ā-akoranga ngā taputapu tātari mā, mā ngā tikanga kua whakaurua ki te hanganga o te anga ture paparanga tuarua o te tūāpapa.

Kāore te kaituhi i whai mana i tēnei wāhanga, ā, kāore ia e whakapae he mātanga ā-ahurea ia. Ko te whāinga o tēnei wāhanga he whakamārama i te anga kia mārāma ai te kaupānui ā-ture, ā-akoranga; hei whakahua i ngā whakamārama ā-akoranga e mau ana te mana mō te kaupapa; ā, hei whakahua i ngā oati kua whakaputaina e te papaanga kia taea e te kaupānui whai mātanga hāngai te aromātai i aua oati.

Wāhanga 6 — Ko te tauira toru-mahi hei toru wāhi e puta ai te rere

Ka wehewehea e te tauira toru-mahi te tūranga o te papa hei kaitiaki (e whakahaere ana i te uru ki te pūnaha taiao), hei kaihanganga ture (e tuhi ana i ngā ture mō ngā hononga i roto i te pūnaha taiao), me te kaiuru kirimana (e whai wāhi ana ki ngā whakawhitanga i raro i aua ture).⁵¹ Ko te kerēme o tēnei pepa, ko ia o ngā mahi e toru he wāhi e *rere ai ngā uara*, ā, nā konei ka puta te mate ā-pūngao o te pūnaha taiao e tautuhia ana e te hōtaka rangahau. Ko ngā here hanganga a Village tētahi whakatinanatanga o tētahi urupare piri-uara ki ia o ngā wāhi rere e toru.

5.1 Te mahi kaitiaki kuaha — te rere ki te uru tangohanga

He papanga e mahi ana hei kaitiaki kuaha, ā, kei a ia ngā kī ki te uru: ki te memātanga, ki ngā āheinga mahi, ki te wehenga, ki ngā raraunga. Ko te

āwangawanga o te hōtaka rangahau, ka taea e ngā papa te huri ki te tiaki-kuaha tangohanga — te here-roa, ngā utu whakawhiti, ngā ārai ki te wehe, me te whakahaere rerekē i ngā kaiuru e whakawhirinaki ana ā-hanganga. Ehara tēnei huringa i te hua o tētahi whakatau mārama; he taumaha kua kohia mai i ngā whakatau iti, ā, ka taea te whakamana i ia whakatau i runga i ngā take whai hua. Ka tāpiri te papanga i tētahi āhuatanga "whakaroa" hei whakaiti i te whakamahi hē, ā, ka noho taua whakaroa hei ārai kia puta. Ka piki ngā utu a te papanga hei whakautu ki ngā pēhanga utu, ā, ka noho te utu hei ārai kia uru mai mō ngā mema i whakatūria ai te papanga hei ratonga mā rātou. He ture tēnei rere, he āpitapita, ā, i roto i tētahi taumata mātauranga Weberian, ka whakakōtahitia mā te arorau tikanga.

Ko te urupare a Village ki te huringa o te kaitiaki-kuaha he mea hanganga: he utu ohaurunga papatahi mō ia hāpori kāore e piki ake i te nui o ngā mema, he taumata 200-mema e huri ai te tipu ki te kotahitanga, kua ki te kaha ake o te tangohanga rawa, te wehewehe nohoanga o ngā kaipāmu hanganga e tango ana i te whakawhiti-nohoanga ara kōhi raraunga e huri ana i te tiaki kuaha hei here ā-pānga whatunga, me ngā oati kua whakaputaina mō te kawē me te muku raraunga e tautokohia ana e te wāhere. He āhuatanga kore-huringa o te Papanga 1 ia. Me whakarerekē te wāhere kia takahia ia. Ka kitea ia i te putunga raraunga. Kua herea ā-hanganga te rere o te mahi tiaki kuaha, ehara i te mea kua tirohohia noa iho.

5.2 Te mahi ture — te rere ki te tuhi ture kotahi-taha

He papa e mahi ana hei kai-ture e tuhi ana i ngā ture e whakahaere ana i ngā whanonga me ngā hononga o ngā kaiuru i roto i te pūnaha taiao. Ko te āwangawanga o te hōtaka rangahau, ko te tuhi a ngā papa i ēnei ture i runga i te taha kotahi, kāore he reo a ngā kaiuru, kāore he here ā-waho, ā, kāore he here mō te whanonga ake o te papa hei kaituhi ture. Ko te tauira huri haere i tēnei mahi, ko te whakaheke haere o te reo o ngā kaiuru ki te whakarite ture, me te whakawhānui haere o te mana whiriwhiri a te papa — ehara i te mea mā tētahi whakatau kotahi, engari mā te kōhi haere o ngā panonitanga ture iti, ā, he mea tika ia kotahi.

Ko te urupare a Village mō te pūnaha ture e rere ana ki te taha, ko te here ā-ture i whakaputaina i roto i te ture matua o te kaiwhakahaere, me te hanganga ā-ture toru-ā-papa e here ana i te hanga ture a te papa ki muri i tētahi pūnaha mana ā-papa. Ehara ngā mātauranga whānui o te Papa Tuatahi a te kaiwhakahaere i te tuhinga kaupapa here ka taea e te kaiwhakahaere te whakarerekē i tōna hiahia. Ko ēnei ngā āhuatanga tūturu kua tuhia ki te wāhere o te tūāpapa, ā, me whakarerekē te wāhere kia kitea i te putunga raraunga mō ia panoni. Ko te ū ki te kanorau o te kaiwhakahaere — arā, ko te whakaae kia rerekē ngā uara o ia hāpori, ā, kāore te tūāpapa e whakanoho i tētahi rārangi uara kotahi puta noa i ngā hāpori — he āhuatanga tūturu o te Papanga 1 anō, arā, kua aukatia e te kaiwhakahaere ā-hanganga tōna ake āheinga kia kore ai e rere ki te whakakōtahitanga taunoa o Silicon Valley i raro i te pēhanga whakataetae.

Kua herea te rere o te mahi a te kai-ture i runga i te hanganga mā te here i te kai-ture ki te ture matua i whakaputa ai ia.

5.3 Te mahi kaiwhakahaere kirimana — te rere ki te pakarutanga tūranga

He papa e mahi ana hei kaiwhakahaere kirimana, he rōpū ia ki ngā tauhokohoko, ā, he kaiwhakarite ture hoki mō aua tauhokohoko. Ko te āwangawanga o te hōtaka rangahau, mā tēnei ka puta he pakarutanga o ngā painga kāore e taea te whakataū: ka taea e te tūāpapa te tuhi anō i ngā ture o ngā whakawhitinga e whai wāhi ana ia ki a rātou. Ko te tauira rere i tēnei mahi, ko te hopukanga haere tonu o te mana tuhi ture e te tūranga kaiwhakahaere kirimana — ka tuhi te tūāpapa i ngā ture e whai ana ki āna ake whakawhitinga, ā, kāore ia e whakaputa kōrero kia tae rā anō kia tino pakari te pakarutanga.

Ko te urupare a Village mō te piringa uara ki te pae rereketanga o te kaiwhakahaere kirimana, ko te herea ā-mahi i te tūranga kaiwhakahaere kirimana o te papa. E rua noa ngā hononga kirimana tūturu a te papa: ko te hononga ohaurunga i waenga i te kaiwhakahaere me te hāpori (utu papatahi, here utu whakatū, tikanga kua whakaputaina), me te hononga kotahitanga i waenga i te papa me tētahi hāpori kotahitanga e te papa anō e whai wāhi ana hei Hāpori (kāore he mea i tēnei wā). Ka whakataū te tūāpapa kia kaua e whakauru ia hei hoa taurite kirimana i ngā whakawhitinga kōrero i waenga i ngā mema, i waenga rānei i ngā hāpori. Ko te kotahitanga i waenga i ngā hāpori he kirimana ā-taha e rua i waenga i ngā hāpori e rua, ā, ka whakarato te tūāpapa i ngā hanganga, engari kāore ia e noho hei taha taurite. Kāore e taea te puta o te tauira rere, nā te mea kua aukatihia ā-hanganga te pakarutanga tūranga — kāore te waehere o te tūāpapa e tautoko i ngā tauira whakawhitinga ka whakaputa i te pakarutanga.

I ia kotahi o ngā mahi e toru, kua tautuhia e te hōtaka rangahau tētahi mate hēke; i ia take, kua aukatihia e Village te tauira hēke mā te here i ngā whanonga o te tūāpapa ki tētahi āhukatanga kore-huri o te Papanga 1 kāore e taea e ia te whakarerekē māna anake. Nā reira, ehara te mahere toru-mahi i te ōritenga mīhini i waenga i te hanganga o Village me ngā mahi e toru. He tauākī tēnei mō te whakatikatika uara: ka whakautu te hōtaka rangahau a Blockx me te kaupapa a Village ki tētahi āwangawanga e tiritirihia ana, ā, he rerekē anake rātou i te tikanga whakautu — ka whakawhanake te hōtaka rangahau i ngā taputapu tātaritanga me ngā taputapu ture, ā, ko Village ka whakawhanake i ngā taputapu hoahoanga me ngā taputapu ture matua.

Wāhanga 7 — Te ōritetanga tohatoha hei hua o te piri o ngā uara

Ka ui te anga o te tika tohatoha mēnā kua tohatohahia tika ngā painga oranga i whakaputaina e te pūnaha taiao o te papaanga ki waenga i ngā rōpū whai pānga i roto i taua pūnaha.⁵² Ko te kerēme o tēnei pepa, *ko te tika tohatoha te āhua oranga e whakaputaina ana e tētahi tūāpapa e piri ana ki ngā uara*. Mēnā ka ārai te hanganga o te tūāpapa i te huringa o te mahi kaitiaki-kuaha e tango ana i ngā hua o te tipu, ka rere ngā painga o taua mahi ki ngā kaiuru, ehara i te tūāpapa. Mēnā ka ārai te hanganga i te huringa o te mahi kaihanganga-ture ki te tuhi ture kotahi-taha, ka tohatoha ngā painga o taua mahi ki ngā kaipāpā, ehara i te hopukia e te tūāpapa. Mēnā ka ārai te hanganga i te huringa tūranga o te kaiwhakahaere kirimana ki te pakarutanga tūranga, ka tohatoha te painga o te kaiwhakahaere kirimana ki ngā kaiuru o ngā hononga, kāore e tangohia e te papa hei kaiwhakarite ture. Ehara te tika tohatoha i tētahi whāinga motuhake e whai ana te papa. He hua e taea te matapae nō te piri o ngā uara o te papa, ina whakauru ngā uara e pā ana ki te oranga o ngā kaiuru o te pūnaha taiao.

6.1 Ngā rōpū hunga whai pānga i te rahi o Village

E rima ngā rōpū e hāngai ana ki te rahi me te taumata o Village:

1. **Kaiwhakahaere.** My Digital Sovereignty Ltd.
2. **Hapori (kāinga noho).** Ko ngā wāhanga e 25–200 ngā mema e ohauru ana, e whakahaere ana i runga i te tūāpapa.
3. **Ngā mema.** Ko ngā tāngata takitahi e noho ana ki tētahi hapori.
4. **Ngā kaiwhakahaere me ngā kaiārahi.** Ngā mema o te hapori e mau ana i ētahi atu haepapa, ā, (i raro i te mahere ara tuakana-teina) ngā kaiārahi e āwhina ana i ētahi atu hapori kia whakatū i a rātou anō.
5. **Ngā hoa kotahitanga.** Ētahi atu hapori kua hono mā ngā kirimana kotahitanga ā-rua.

6.2 Ngā kawenata tohatoha mō ia rōpū

Kaiwhakahaere. Ko te oati tohatoha a te kaiwhakahaere ko te mātāpono o te *Tauira Pakihi Toitū* o te ture matua kua whakaputaina: Ka utua e Village ngā utu hei whakahaere toitū i te ratonga, me tētahi hua whai tikanga, ā, kāore ia e hoko pānui, raraunga, rānei uru āpitihanga. Kāore i te whakapuakina i tēnei wā ngā utu mō te kaiwhakatū, te wā whakahaere, me ngā āwhina pūtea whakawhiti kiritaki. Ko te hiahia kua whakaputaina, i te wā e hangaia ana te Pūtea Atawhai, ka noho te tohatoha taumata kaiwhakahaere i raro i te mana whakahaere a ngā kaitiaki, kua ko te mana motuhake anake mō te kaiwhakatū. Ko te āhua o nāianei, he muna e hāngai ana ki te wāhanga, ā, kua whakapuakina pēnei; ko te āputa, ko te whakawhirinaki ki te ngākau pono o te kaiwhakatū mō te tohatoha oranga taumata kaiwhakahaere, tae noa ki te wā ka hangaia te Pūtea.

Ngā Hapori. Ka whiwhi ngā hapori i te utu papatahi mō ia hapori me tētahi reiti whakatū tūturu, he mana whakahaere katoa ki ā rātou ake raraunga me te whakahaere, te tika ki te wehe i ngā wā katoa me te kawē raraunga, he here pakeke hanganga mō ngā mema e tiaki ana i te rahi o te hapori, te oati maha-āhua e whakapūmautia ana e te kaiwhakahaere kāore e whakawhiua he uara ki te hapori, ā, kua whakaputaina te whakahē ki te hoko raraunga hapori, ki te whakangungu tauira i runga i ngā ihirangi hapori me te kore whakaaetanga, ki te whakamahi rānei i ngā pārongo hapori hei painga mō ētahi atu kiritaki. Te āputa: kāore anō ngā hapori kia whai reo ā-ture i ngā whakataunga taumata-papa. Kua whakaputaina te reo whakahaere hapori hei ariā kei te whakawhanakehia, ā, kāore anō kia hangaia.

Ngā mema. Kāore ngā mema takitahi e tangohia ana he utu mō ia tangata, he rangatiratanga katoa ki ngā raraunga tae atu ki te kawēake i ngā hōputu tuwhera, he whakamana mō te muku e kapi ana i ngā whakaputanga, ngā tārua, me ngā pūnaha AI, he whakawhitinga AI e hāngai ana ki te whakaaetanga me te pupuri mahara mō tētahi wā poto, he tiaki ki te aroturuki i ngā whanonga me te whakapai ake i te whai wāhi mā te pānuitanga, me te tika ki te wehe me te kore whiunga. Kei te hanga ināianei ngā oati hanganga taumata mema. Kāore te kaituhi e tautuhi ana i tētahi āputa taumata mema motuhake i tēnei wā, ahakoa he mahi mā tētahi kaitātari o waho te whakamana i te whakamana muku, ehara mā te kaiwhakahaere.

Ngā kaiwhakahaere me ngā kaiārahi. Ka whiwhi ngā kaiwhakahaere e mahi ana i raro i te anga tuakana-teina i te mōhiotanga mā te whakapapa (te rārangi o ngā hapori i āwhinatia), te utu-ā-koha i ngā wāhanga whakamutunga o te mahere huarahi, me tētahi oati kua whakaputaina ki tētahi ara ratonga ngaio ā-Māori i te wāhanga whakamutunga o te mahere huarahi. Kei te hanga te Wāhanga 1; kua whakaritea ngā Wāhanga 2 ki te 5 i runga i te mahere huarahi, engari kāore anō kia hangaia. Ko te āputa: i tēnei wā, kei runga i te Wāhanga 1 me te ngākau pono o te kaiwhakahaere ki te whakarite mahere huarahi mō ngā wāhanga whai ake te tohatoha oranga taumata kaiārahi.

Ngā hoa hononga. Kua hangaia te hononga hei kirimana ā-rua me ngā tikanga whakamutu mārama, whakaaetanga ā-papa, me ngā mana putanga. Ko te here kia 200 mema e ārai ana i ngā āhua kore-ōrite o te kotahitanga e puta ake ana i te mea he nui rawa atu tētahi hapori i tētahi atu. Kāore anō he tikanga ā-ture hei tiaki i ngā āhuatanga kore-ōrite mō ngā wā ka tino rerekē te kaha rauemi o tētahi hoa kotahitanga; ko te here mema te nuinga o te mahi, engari kua tautuhia te āputa.

6.3 Ki te mea e whakawhirinaki ana te oati ki te ngākau pono o te kaiwhakatū

E toru ngā oati kāore anō kia whakatinanahia ā-hanganga, ā, e whakawhirinaki ana ki te whakahaere a te kaiwhakatū kotahi o nāianei:

1. Tohatoha oranga i te taumata kaiwhakahaere i mua i te hanganga o te

Trust.

2. Te reo whakahaere hapori i ngā whakataunga taumata papa.
3. Te whakawhitinga tiakitanga mō te wā-roa i tua atu i te wā e kaha ana te kaiwhakatū kotahi.

Ka ingoa ēnei e te kaituhi i runga i te mārama, nā te mea kāore e oti te tātaritanga whakatikatika uara mēnā ka warewarehia ēnei. Ka aro atu te mahere huarahi kua whakaputaina ki ēnei tokotoru katoa — te hanga Whakawhirinaki Atāwhai mō (1) me (3), ngā pūnaha reo whakahaere hapori me te Poari Tohutohu Hangarau mō (2) — engari kāore anō kia oti tētahi i te wā e tuhi ana. Ehara i te mea e kī ana te pepa kua oti ngā āputa; engari e kī ana kua ingoia, kua whakaputaina, ā, kua whakaritea hei mahi ā muri ake. Ko te whakaputa kōrero nei he wāhanga anō o te tū āhua piri-ki-ngā-uara: ka whakaputa te tūāpapa uara piri i āna ake mahi kāore anō kia oti, kia taea ai te whai i te rere mai i te hiahia ki te whakatutukitanga i te marea.

Wāhanga 8 — Ngā paearu arotake hanganga

Ko te ariā matua o te pepa, ka taea te arotake i ngā oati a tētahi papanga e ū ana ki ngā uara i te taumata iti iho i te Big-Tech, mā ngā taonga tuhinga puna tuatahi tūmatanui, me te kore e whakapuaki e te papanga ngā pārongo tauhokohoko, pūtea rānei huna. Ka whakamana tēnei wāhanga i te tikanga arotake hei ripanga o ngā kerēme ka taea te tiroiro, ia kerēme he taonga tūmatanui hei taunakitanga, me tētahi ara whakakāhore ka taea e te kaipānui te whakamahi hei whakamātau motuhake i te kerēme.

Tāpaetanga	Taonga whakamana	Tūmatanui?	Ka pēhea te whakamātau kia hē
Whakamanatanga ā-ture mā te here-ā-tōpū me te hītori putanga	Ture Matua V1.2.0, whai mana i te 2025-11-20, i whakaputaina i roto i ngā reo e rima i te URL ture matua a te kaiwhakahaere	Āe	Pānuitia te tuhinga; whakatairitea ngā reo puta noa i ngā whakamāoritanga; tirohia ngā ratonga whakarōpū mō te hītori o ngā putanga

Tāpaetanga	Taonga whakamana	Tūmatanui?	Ka pēhea te whakamātau kia hē
Whakangao ture toru-āputa (Aputa 1 kāore e taea te whakarerekē, Aputa 2 kaipā, Aputa 3 mema)	Tuhinga tūāpapa arorangi; ture matua; tautuhinga kaipā; atanga manakohanga mema	Āe	Arotakehia te tuhinga ture matua; whakamātau ki te whakakore i tētahi āhuatanga kore-huringa o te Papanga 1 i te Papanga 2; tirohia te whakakahoretanga
Anga Tractatus (ngā tūāpapa arorau)	Tuhinga tūāpapa arorau kua whakaputaina; tuhinga arorau a Guardian Agents; putunga anga Tractatus	Āe	Pānuitia ngā tuhinga; whakamana kia kitea ngā tohunga ariā kua whakahuatia e whakaata ana i ngā whakataunga hoahoanga
Utu papatahi mō ia hapori, kāore he utu mō ia tūru, here i te reiti tīmatanga	Whārangi utu me te whirihoranga hua ohaurunga i roto i te kaiwhakarato utu (Airwallex)	Āe	Whakamātau i te rerenga ohaurunga; tirohia te hanganga utu; whakamana kore e piki utu ia tūru
Te rangatiratanga o te kaiwhakarato (kāore he ratonga whakahaere i raro i te mana whakahaere o Amerika)	Kaupapa here kaiwhakarato i whakapuakina e te kaiwhakahaere ki te marea, tuhinga hanganga, me te tirohanga i ngā rerenga raraunga e puta ana i te taiao whakaputa	Wāhanga noa (i te taumata arotake waehera me te mātakitaki rerenga)	Arotake i ngā whakawhirinaki i roto i te waehera tūmatanui; hopu i ngā rerenga putanga o te whakaputa; whakamana i te kore o ngā karanga ki ngā ratonga i raro i te mana whakahaere o Amerika

Tāpaetanga	Taonga whakamana	Tūmatanui?	Ka pēhea te whakamātau kia hē
Wehewehenga hanganga o ngā kaipā (kāore e whakaaetia ngā pātai whakawhiti-pā)	Ka whakamahia te mono-tātari-tenanti i te paparanga uru raraunga, kua tuhia hei āhuetanga hoahoa pūmau i ngā aratohu pūhanga	Wāhanga (i te taumata arotake waehera)	Arotake waehera o te paparanga uru raraunga; whakamātau i tētahi pātai horopaki kiritaki-A mō ngā raraunga kiritaki-B; whakamana i te whakahē
Ngā mana putanga me te kawē raraunga ā-hōputu tuwhera	Ngā tauranga kawēake raraunga i roto i te API tūmatanui me te ū ki te ture matua i te Mātāpono 1	Āe	Whakamātau i te kawēake; whakamana i te putanga hōputu tuwhera; whakamana i te whakaoti
Tāutoko muku (whakaputa, tārua, pūnaha AI)	Te ū ki te Ture Matua i roto i te <i>Mana Motuhake Tuatahi</i> ; ngā tikanga whakahaere kua tuhia ki ngā aratohu hangarau	Wāhanga noa (e kī ana he tūmatanui, engari me arotake kia whakatinana)	Tono kia mukua hei mema; tono kia whakamana te tango i ngā karaehe e toru katoa; aromatawai mēnā ka taea e te kaiwhakahaere te whakaatu i te oti
Te taumata hoahoanga mō ngā mema e 200, te kotahitanga hei ara whakawhānui	Tauira kupu mō te whārangi utu, tauira kirimana-ā-rua mō te whārangi kotahitanga	Āe	Whakamātau ki te tāpiri i te mema 201; whakamana ka hinga te whakamātau, ka whakaoho rānei i te kotahitanga

Tāpaetanga	Taonga whakamana	Tūmatanui?	Ka pēhea te whakamātau kia hē
Tekau mā rua ngā momo hua e tautokohia ana e tētahi pūtake waehere kotahi	Pūnaha kupu tūmatanui kua whakamārama i te whārangi mahere; whirihoranga momo-hua i roto i te waehere	Āe	Arotakehia te whirihoranga o te rārangi kupu; rēhitatia ki ngā momo hua e rua rerekē; whakamana kia kotahi tonu te pūtake waehere e whakarato ana i ngā rerekētanga o te rārangi kupu
Ngā Guardian Agents e whakahaere ana i te whakaputanga (te whakatinanatanga o te paparanga tuatahi o te rohe e taea ana te kī / kāore e taea te kī)	Ngā tuhinga Kaihautū Kaitiaki kua whakaputaina; ngā papamātakitaki aroturuki whakaputanga a te kaiwhakahaere	Āe (ngā tuhinga) / Wāhanga (taunakitanga whakaputanga)	Pānuitia ngā tuhinga kua whakaputaina mō ngā Guardian Agents; tirohia te whanonga whakaputa i ngā papamātakitaki a te kaiwhakahaere
E ono anga matatika me te whiriwhiringa maha	Kua whakaputaina te tuhinga turanga arorau; ratonga PluralisticDeliberator i roto i te putunga Tractatus	Āe	Pānuitia te tuhinga; tirohia te waehere ratonga i roto i te pātaka

Tāpaetanga	Taonga whakamana	Tūmatanui?	Ka pēhea te whakamātau kia hē
Tuakana-teina Wāhanga 1 kei te whakaputanga (e whā ngā hongere tautoko)	Tāpaetia te tuhinga mō ngā ratonga tautoko; taputapu āwhina i ia Village; tuhinga whakamārama; hongere urupare; rerenga whakarite wāhanga ataata whakataki mō ngā hui	Āe	Haere ki tētahi Kāinga ora; whakamahia ia o ngā huarahi e whā; tirohia te whakahaere
Kua whakamaheretia te Trust aroha, kāore anō kia whakaurua (<i>Te Puna Rangatiratanga</i>)	Whārangi mahere a te kaiwhakahaere; ingoa me te whakahau a te Trust kua whakaputaina; rēhita o te Tari Kamupene o Aotearoa	Āe	Tirohia te whārangi mahere; tirohia te rēhita; whakapūmau kei te noho tonu te Trust i te taumata whakaaro
Poari Tohutohu Hangarau e hanga ana, kāore anō ngā mema kia ingoa	Whakapuakitanga o te kaupapa i te whārangi mahere a te kaiwhakahaere, te oati mō ngā tūru 50%+ nō ngā iwi taketake/Te Tonga o te Ao, he kī mārāma ka ingoa ngā mema anake ina hōhonu te Poari	Āe	Tirohia te whārangi mahere; whakapūmau kāore he rārangi mema kua whakaputaina

Tāpaetanga	Taonga whakamana	Tūmatanui?	Ka pēhea te whakamātau kia hē
Ngā anga rangatiratanga raraunga taketake i whakahua, i tohuhia hoki (CARE, Te Mana Raraunga)	Wāhanga ture matua; ngā tohutoro ki ngā whārangi uara; ngā tohutoro i roto i te tuhinga tuakana-teina; ngā tohutoro i roto i te tuhinga ariā a Guardian Agents	Āe	Whakamana i ngā tohutoro ki ngā puna matua i te Global Indigenous Data Alliance me Te Mana Raraunga

Ka taea e te kaipānui me te uru ki te ipurangi tūmatanui te tiroiro i ia rārangi. Ko ngā rārangi kua tohuia *he Wāhanga anake* e hiahia ana he arotake wāhere, he mātakitaki rerenga rānei hei tāpiri ki te pānui i ngā tuhinga kua whakaputaina; ka taea e te kaipānui me ēnei āheinga te whakaoti i te arotake motuhake, ā, e pōwhiritia ana e te kaiwhakahaere te whakamana a tētahi atu rōpū mō tētahi rārangi.

Ehara i te mea e kī ana te kaituhi ko tēnei tikanga arotake hei whakakapi i ērā atu tikanga aromatawai oranga katoa i ngā taumata katoa, kāore hoki e mea ana he rongoā katoa mō te mana pūnaha-taiao māna anake. He whaiti ake te kerēme: arā, i te taumata hapori iti iho i te Big-Tech, ka taea te tiroiro i ngā uara piri e whakamārama ana i te Wāhanga 2 mā ngā taonga pūtaka matua anake, ā, ko tēnei āheinga tiroiro he tohu mō te tika tohatoha e tika ana kia whakaarohia e te hōtaka rangahau.

Wāhanga 9 — Ngā āputa

Me whakapuaki e tētahi tūāpapa e ū ana ki ngā uara ngā wā kāore anō ōna uara kua whakataua kia whakatinanahia ā-tūtohu. E ingoa ana i tēnei wāhanga ngā āputa e rima pēnei, ā, ka puta ia āputa ki tētahi whārangi tūmatanui a te kaiwhakahaere, ā, ko ia anō te kaupapa o tētahi oati whakatika kua whakaputaina.

Kōhao 1 — Kāore anō te Pūtea Whakawhirinaki Atawhai kia whakaurua. *Te Puna Rangatiratanga* Trust, i whakamanahia e te kaiwhakahaere hei kaitiaki mō te wā-roa o te ture matua me te anga whakahaere o Tractatus, kāore anō kia whakaurua. Kua rahuitia e te kaiwhakahaere te ingoa, ā, kua whakaritea he anga ture matua, engari kāore he tuhinga whakahaere, kāore he kaitiaki, ā, kāore he mana ā-ture o te Pūtea i

te wā e tuhi ana. Ko te tūnga kua whakaputaina, ko te whakatū i te Trust i te wā ka pakeke rawa ngā hononga e whakarato ana i te hōhonutanga whakahaere. He tūturu te āputa; ko te whakaiti i te pānga, ko te whakaputa i te hiahia ki te marea, me te whakaputa i ngā paearu mō te whakatū ā-ture.

Kōhao 2 — He wawata noa iho te reo whakahaere hapori. Kāore anō he kaunihera kaipāmu ā-ture, he hui ā-mema, he rōpū māngai hapori rānei e tū. Ko te anga mahi ngātahi i te whārangi uara a te kaiwhakahaere me te ariā reo whakahaere hapori i te whārangi mahere kua whakaputaina hei ariā e whakawhanakehia ana, ehara i te mea he āhuatanga kua tukuna. He tūturu te āputa; ko te whakaiti i te tūraru, ko te whakaputanga o te ariā me te nui o ngā taipitopito kia taea e ngā kaipānui te whai i te kawenga a te kaiwhakahaere mō te whakatinanatanga ā muri ake, ā, kua whakaputaina hoki te Poari Tohutohu Hangarau hei huarahi kawenga motuhake.

Kōhao 3 — Kāore te tohatoha taumata kaiwhakahaere e arotakengia tūmatanui. Kāore ngā utu a te kaiwhakarewa, te roa o te pūtea tautoko, me ngā rerenga pūtea āwhina ki ngā kiritaki kē e whakapuakina, e arotakengia, e whakahaere rānei e tētahi atu rōpū kē atu i te kaiwhakarewa kotahi. Ko te tūnga kua whakaputaina e te kaiwhakahaere, he mea tika tēnei mō tēnei wāhanga: He tikanga noa iho te tūmataitinga o ngā kamupene i te wā tuatahi i raro i te ture kamupene o Aotearoa, ā, e tūmanakotia ana ka huri te tikanga arotake a te kamupene ki te whakahaere a te Trust i te wā e hangaia ana te Trust. He tūturu te āputa; ko te whakaiti i te tūraru ko te tūmataitinga e hāngai ana ki te wāhanga me te whakaputa i te hiahia huringa.

Kōhao 4 — Mōrearea whakawhitinga rangatira kotahi me te AI. He 74 tau te pakeke o te kaiwhakatū. Ko te tūnga kua whakaputaina e te kaiwhakahaere, he ngoikoretanga hanganga tēnei; ko te whakatika ko te hanganga o te Pūtea Whakawhirinaki Atāwhai me te Poari Kaitohutohu Hangarau, kāore anō kia whakatūria ēnei e rua. Ko te kaituhi o tēnei pepa te kaiwhakatū hoki, ā, e whakapono ana ia he wāhanga o te ū ki te tiakitanga te whakapuaki i tēnei āputa ki te marea i runga i te whārangi mahere me roto i tēnei pepa. Me whakaaro nui te kaipānui e aromatawai ana i te tū o te tūāpapa ki te ū ki ngā uara, ki te mea kua whakapuaki tēnei āputa, kāore i huna.

Kōhao 5 — Kāore ngā Wāhanga 2 ki te 5 o Tuakana-teina i tukuna. Kei te hanga tonu te Wāhanga 1 (e whā ngā huarahi tautoko: te matua āwhina AI, te whakamārama ki te rangatira me te kaiwhakahaere, te huarahi urupare, te wānanga ataata whakataki me te kaihanganga). Ngā Wāhanga 2 ki te 5 (te arataki i ngā kāinga, te whatunga arataki me ngā mātanga kua rēhitatia, te toronga ki ngā hapori taketake i tua atu i Aotearoa, ngā ratonga ngaio e ārahi ana ngā Māori) kua whakamaheretia, engari kāore anō kia hangaia. Nā reira, kei runga i te Wāhanga 1 me te whakamahere kua whakaputaina kia anga whakamua ki ngā wāhanga o muri ake nei te ū ki te tohatoha ki ngā kaiārahi i tēnei wā. He tūturu te āputa; ko te whakaiti i te pānga, he mea ka taea te tuku i te Wāhanga 1 i tēnei rā, ā, ka taea te arotake, ā, kua tuhia ngā wāhanga o muri ake nei me te taipitopito e tika ana kia taea ai te whakahaeretanga i te kaiwhakahaere.

Kāore ēnei rima āputa i huna. Ka kitea ia i runga i tētahi whārangi tūmatanui a te kaiwhakahaere. Ko te ingoa tūmatanui o ngā kawenata kāore anō kia oti he tohu mō te ū ki ngā uara: he tūāpapa e whakaatu ana i ngā huringa, ā, ka whakaatu hoki i te āputa i waenga i ngā hiahia kua whakapuakina me ngā mahi o nāianei. Ka tonoa te kaipānui kia whakataua te tūāpapa i runga i te hanganga kua whakatinanahia me te mārama o te whakaatu i te āputa.

Wāhanga 10 — Ngā pātai rangahau tuwhera

Ka tukuna te tauira mahi o tēnei pepa ki te hapori ākongā ture hei tuku tuhinga ā-ture. Ko ngā pātai i raro nei ko ēnei e whakapono ana te kaituhi he mea pai rawa atu kia aromatawaihia e te hapori, ā, kua tuhia ēnei i roto i tētahi āhua e whai ana kia mārama, kia tūturu.

1. **He tika rānei te ariā o te piri o ngā uara?** Ka whakamahi te pepa *i te piri o ngā uara* hei ingoa mō te āhuatanga kei tētahi whakahaere, arā, ka ārai ā-hanganga i āna uara kua whakapuaki kia kore e rereke. He ariā whaihua tēnei, ā, kei te rōpū rangahau kē he kupu mō tēnei e tika ana kia whakamahia e te kaituhi? Ki te hē, ki te whakapohehe rānei te kupu, he aha te whakahua pai ake?
2. **He ranea rānei te aronga arotake hanganga i te taumata hapori iti iho i te Big-Tech?** I te taumata me te wāhanga i whakamāramaia i roto i tēnei pepa, he ranea rānei te kohinga o ngā oati kua rārangi i te Wāhanga 8 hei whakatū i tētahi tūnga tika tohatoha whai tikanga, hei whakakapi rānei i ngā aronga ka hāngai i te taumata nui ake?
3. **He aha ētahi atu paearu hanganga ka whakakaha ake i te arotake?** He mea hanganga rānei e kore i whakaurua e te ripanga o te Wāhanga 8, ā, ka tūmanakohia e tētahi kaipānui whai wheako ki te whakatinana i te ture whakataetae kia kite?
4. **Kei hea te huarahi ū ki ngā uara e ngoikore ai?** E mau ana i ngā āhua hapa o te mana pūnaha taiao, ā, ko ēhea kāore e mau? He aha ngā tikanga o mua e puta ai ka whakawhiti tētahi tūāpapa i tētahi taumata rahi, taumata whakahaere rānei, ā, ka akiaki i te huringa ki ētahi atu huarahi arotake?
5. **Te whai wāhi whakawhānui ki ngā rohe mana whakahaere.** Ka whakahaerehia te tauira mahi mai i Aotearoa New Zealand, ā, he nohoanga whakahaere hoki kei te EU. Ka taea te tārua i te hanganga pūnaha ki ētahi atu rohe mana whakahaere? He aha ngā āhuatanga ā-rohe mana whakahaere (pērā i te pūnaha ture kirimana, te wātea o te ture whakawhirinaki, te hanganga ture rangatiratanga raraunga taketake) e tautoko ana i te tauira?
6. **Ngā anga tohatoha kāore i te Hauāuru me ngā rangahau ture-**

ā-ākoranga o te EU. Me pēhea te hōtaka rangahau e mahi tahi ai ki ngā anga tohatoha kāore i te Hauāuru (te rangatiratanga raraunga Māori, ngā Mātāpono CARE, te tuinga whakahaere raraunga taketake whānui) e whakatinana ana i te tika tohatoha mā te herenga hononga, ehara mā te whakatinanatanga ture?

7. **Ngā taura mahi hei rauemi mātauranga.** Mēnā ka whakaputaina ngā tuku tuinga pērā i tēnei pepa i te taha o ngā rangahau matua, ka whai hua ēnei ki te hōtaka rangahau hei rauemi whakamātautau, hei rauemi whakatairite whai whakaaro, kāore rānei?

Wāhanga 11 — Tikanga, whānuitanga, me te pūrongo ā-tinana

He taura mahi, ehara i te whānuitanga. E tuhi ana te pepa i tētahi papa e whakahaere ana i te taumata hāpori iti iho i te Big Tech, i te wā tuatahi o tōna whakahaere, mai i tētahi tūnga ā-rohe ture kotahi (Aotearoa me te nohoanga whakahaere i Uropi), i raro i tētahi hanganga ā-pakihi a te kaihanganga kotahi, ā, me te aronga rangatiratanga raraunga ā-iwi taketake. He motuhake ngā kitenga ki taua horopaki. Kāore e tohu ana kia whānuitia ki ngā Big Tech; ka taea te whakawhānui ki ētahi atu papa ā-hāpori i te ariā, engari me whai taura mahi motuhake.

Te pūrongo ā-tangata. Nā te kaiwhakahaere o te tūāpapa i tuhi tēnei pepa. Ia kerēme pono mō te tūāpapa ka taea te whakamana mā ngā taonga tūmatanui i whakahuatia i te Wāhanga 8. Ko te tūnga a te kaituhi, ko te tikanga arotake e hāngai ana ki ngā taonga tūmatanui te urupare tika ki te pūrongo-a-tangata: kāore e hiahiatia ana e te kaipānui kia whakawhirinaki ki ngā kī a te kaiwhakahaere, nā te mea ka taea te whakamātau ia kī katoa ki tētahi taonga kāore e whakahaerehia ana e te kaiwhakahaere.

Āwhina AI. He kaiwhakahaere kamupene kotahi te kaituhi, ā, ehara ia i te kairangahau ture. I tuhia tēnei pepa me te āwhina a te AI (Claude, nō Anthropic), hei āwhina matua mō te hanganga, te tika o ngā tohutoro, me te whakatika i te tuhi. Kei runga i te kaituhi te kawenga katoa mō ngā ihirangi o tēnei pepa, me ngā hapa katoa kei roto. Ka tonoa ngā kaipānui e kitea ana he hapa kia whakatika i te kaituhi, kia taea ai e ngā putanga ā muri ake nei te whakauru i te whakatikatika.

Te āhei ki te tārua. I runga i te ariā, ka taea e ētahi atu papa ā-hāpori te tārua i ngā whakaritenga hanganga i whakamārama i roto i Wāhanga 3 — utu papatahi mō ia hāpori, here mō ngā mema hanganga, te wehewehe o ngā kaipā, te kōwhiringa rangatiratanga kaiwhakarato, te here ā-ture ā-iwi a te katoa, ngā mana putanga me te kawē raraunga — ā, ka taea e rātou te tārua i te hanganga ture toru-āputa i whakamārama i roto i te Wāhanga 2.4. He pātai mā rātou mēnā me pēnei rātou; kāore tēnei pepa e whakahau kia pēnei rātou.

Pūtake tuwhera. Kei runga i te hua o te tono Pūtea NGI Zero Commons o Aperira 2026 te tango me te whakaputa i ngā wāhanga matua o te anga Tractatus hei whare pukapuka pūtake tuwhera EUPL-1.2. Ko te hiahia ā-roa a te kaiwhakahaere, ko te tuku i ngā wāhanga; kua herea tēnei hiahia ki te hua o te pūtea, nā te mea he mahi hangarau nui anō te tango me te tuhi tuhinga i te kounga e tika ana mō te tuku.

Ngā mea kāore e ine ana te pepa. Kāore te pepa e ngana ki te ine i ngā hua o te tohatoha oranga (te makona o ngā mema, te pupuri i ngā kaiārahi, te hauora o te kotahitanga, te whai wāhi ki te whakahaere hāpori) nā te mea me whai raraunga roa hei ine pono i ngā hua, ā, kāore anō ēnei raraunga kia wātea mō tēnei papanga. E hiahia ana te kaituhi kia aro nui ngā mahi ā muri ake ki te ine i ngā hua i roto i tētahi atu pepa.

Ngā here o te mana a te kaituhi. Ehara te kaituhi i te kairangahau ture, kāore ia i whakangungua ki te ture whakataetae o te Uniana o Europi, ki te ture kirimana rānei, ā, kāore āna mana mō te kaupapa nei kia aromātai mēnā he mea whakamāharo ā-ariā ētahi wāhanga o te taura mahi, he mea noa rānei. Nō reira, ka tukuna tēnei tuhinga hei rauemi tuhinga, ehara i te mea hei koha mātauranga, ā, ko tōna hua whaihua rawa ko te āhehi a tētahi kaipānui whai mana whai wāhi ki te aromātai, ki te whakawhānui, ki te whakatika rānei.

Ngā Pūtake

Ngā puna rangahau matua

Blockx, Jan. *Te Whakahaere i te Mana Pūnaha o ngā Papanga mā te Ture Kirimana me te Ture Whakataetae*. He kaupapa rangahau, Te Whare Wānanga o Antwerp, Te Takiwā Ture, i pūtea e Te Pūtea Rangahau – Flanders (FWO), 2022–2025. He whakarāpopototanga o te kaupapa e whakamārama ana i te taura toru-mahi me te taura ture i runga i te pūnaha taiao hei whakatika i te nui rawa o te mana papanga mā ngā rongoā o te ture kirimana me te ture whakataetae.⁵³

Li, Yibo. "Te Whakamārama i te Mana o te Pūnaha-ā-Taiao: te Whakamahi i ngā Utu me ngā Āheinga o ngā Kirimana." *Utrecht Law Review*, Rōpū 21, Putanga 1 (Mahuru 2025), whārangi 4–18. DOI: 10.36633/ulr.1097. E tūtohu ana i te tika tohatoha hei whakaaro ārai-whakataetae anō.⁵⁴

Ngā puna whakaaro i whakahuatia i roto i te anga Tractatus

Wittgenstein, Ludwig. *Tractatus Logico-Philosophicus*, 1921. Tautuhinga 7 me te wehewehe i waenga i te mea ka taea te kī / te mea kāore e taea te kī. I whakamāoritia e C. K. Ogden (1922), Routledge & Kegan Paul.

Berlin, Isaiah. "Two Concepts of Liberty", 1958. I tāruarua ki roto i *Four Essays on Liberty* (1969), Oxford University Press. Te maha o ngā uara me te

kore taea te whakataurite.⁵⁵

Ostrom, Elinor. *Governing the Commons: The Evolution of Institutions for Collective Action*, 1990. Cambridge University Press. Whakahaere pokapū maha me ngā umanga whakauru.⁵⁶

Alexander, Christopher. *A Pattern Language: Towns, Buildings, Construction*, 1977. Oxford University Press. Tikanga reo-āhua. *The Nature of Order* (Ngā Pukapuka 1–4, 2002–2004), Center for Environmental Structure. Mātāpono hoahoanga pūnaha ora.⁵⁷

Weber, Max. *Wirtschaft und Gesellschaft*, 1922 (i muri i tōna matenga). Te pūnaha whakahaere ā-ture, ā-arorau me te ariā o te whakamana whakahaere. I whakahuatia hei tūnga ariā e whakautu ana te kōrero *i muri i a Weber* i te Wāhanga 2.

Ngā pūtake mātauranga i whakahuatia i roto i te tautohetohe hurihanga mai i te kotahitanga ki te kanorau (Wāhanga 2.2)

Berlin, Isaiah. *The Pursuit of the Ideal*. 1988 Kōrero whiwhinga Tohu Agnelli. I tāpirihia anō ki roto i *The Crooked Timber of Humanity: Chapters in the History of Ideas*, i whakatikahia e Henry Hardy, Princeton University Press, 1990. Ko te whakapuakitanga pakeke a Berlin mō te kanorau uara hei āhuatanga o te oranga tangata, ehara i te āhuatanga pouiri o te ao matatika.⁵⁸

Berlin, Isaiah. *Four Essays on Liberty*. Oxford University Press, 1969. Kei roto ko "Two Concepts of Liberty" (1958) me ētahi atu tuhinga e pā ana ki te maha o ngā uara me te kore taea te whakataurite.⁵⁹

Gray, John. *Isaiah Berlin*. HarperCollins, 1995; Princeton University Press, 1996. He rangahau whakamārama e kī ana ko te kanorau te koha matua a Berlin, ā, ehara te kanorau i te whanaungatanga engari ko te āhuatanga o te kōwhiringa a te tangata e mōhiotia ana.⁶⁰

MacIntyre, Alasdair. *After Virtue: A Study in Moral Theory*. University of Notre Dame Press, 1981. He tātaritanga i te whakarāpopototanga o te kōrero matatika i raro i ngā āhuatanga o te mōhinui whakamutunga me te ngaronga o tētahi anga whāinga-ā-tangata tiritahi.⁶¹

Taylor, Charles. *Ngā Pūtake o te Tangata: Te Waihanga i te Tuakiri Hou*. Whare Pāpāho o te Whare Wānanga o Harvard, 1989. E tautuhi ana i te takitahi ā-atoomika hei āhuatanga ahurea, ehara i te mea taiao; e whakawhanake ana i te kōrero e mea ana he kanorau, he taupatu hoki ngā pūtake matatika o te ao hou.⁶²

Bellah, Robert, Richard Madsen, William M. Sullivan, Ann Swidler, me Steven M. Tipton. *Ngā Tikanga o te Ngākau: Te Takitahi me te Manatōpū i te Ora o Amerika*. University of California Press, 1985. He rangahau whakamātautau, whakamārama hoki mō te taumaha i waenga i te takitahi me te hapori i roto i te hapori Amerikana o te mutunga o te wā hou.⁶³

Putnam, Robert D. *Bowling Alone: The Collapse and Revival of American Community*. Simon & Schuster, 2000. He tuhinga rangahau mō te hekenga o te rawa ā-pāpori me te pakupaku haere o ngā whakahaere ā-hapori.⁶⁴

Sandel, Michael J. *Te Kore-mārire o te Manapori: A Amerika e Rapu Ana i tētahi Aronga Hinengaro ā-Iwi*. Harvard University Press, 1996. He whakapae e mea ana kua whakakīki te herekore ā-tukanga i ngā painga ā-hapori whaikiko, ā, e tuku ana te tikanga tūmatanui i tētahi whakamārama rerekē mō te whakahaere ā-tinana.⁶⁵

Piketty, Thomas. *Te Pūtea i te Rautau Rua Tekau mā Tahi*. I whakamāorititia e Arthur Goldhammer, Harvard University Press, 2014. Tātāritanga ā-tau roa ā-taurite mō ngā āhuatanga whakakotahitanga pūtea i raro i te kapiti hou.⁶⁶

Ngā taonga a te kaituhi i mua i te Village (ā-roto, kua rā)

Sy.Digital. *Ngā Uara Matua me ngā Mātāpono*, waehera tuhinga STR-VAL-0001, putanga 1.0, 29 o Poutū-te-rangi 2025. He tuhinga whakahaere a te kaituhi i mua i te Village e whakaatu ana i tētahi huinga uara whakahaere kotahi. He tuhinga mahi ā-roto, i whakahuatia hei taonga tawhito o tōna ake whanaketanga hinengaro.

Sy.Digital. *Anga Whakakotahitanga Uara*, waehera tuhinga STR-GOV-0002, putanga 1.0, 31 o Poutū-te-rangi 2025. Anga a te kaituhi i mua i te Village e ngana ana ki te whakakotahi i ngā mahi whakahaere katoa ki te huinga uara STR-VAL-0001 mā te ripanga whakakotahitanga. He tuhinga mahi ā-roto, i whakahuatia hei taonga tohu rā o te whanaketanga hinengaro a te kaituhi.

Sy.Digital. *Hanganga Rōpū Whai Mana: He Ara Hou mō te Rangatiratanga Matihiko*, waehera tuhinga STO-INN-0002, putanga 2, 22 Aperira 2025. Puka mā o te kaituhi i mua i te Village e tūtohu ana i tētahi whakarōpūtanga anō e whā-wāhanga o te hanganga rōpū i runga i ngā pae wā me te mau tonu o ngā pārongo, kua i te whakahaere mātauranga. Tuhinga mahi ā-roto, i whakahuatia hei taonga tawhito.⁶⁷

Pūtake rangatiratanga raraunga taketake

Te Mana Raraunga — Pūhononga Mana Raraunga Māori. *Ngā Mātāpono o te Mana Raraunga Māori*. <https://www.temanararaunga.maori.nz/>.⁶⁸

Carroll, S. R., Garba, I., Figueroa-Rodríguez, O. L., Holbrook, J., Lovett, R., Materchera, S., Parsons, M., Raseroka, K., Rodriguez-Lonebear, D., Rowe, R., Sara, R., Walker, J. D., Anderson, J., & Hudson, M. (2020). Ngā Mātāpono CARE mō te Mana Whakahaere Raraunga Taketake. *Data Science Journal*, 19(1), 43. <https://www.gida-global.org/care>.⁶⁹

Te Tiriti o Waitangi (1840). He tuhinga tūāpapa i whakaaetia i roto i te ture whakahaere a te kaiwhakahaere me te Wāhanga 5.

Ngā taonga pūtaka matua o te tūāpapa i whakamārama

Ture Whakahaere o My Digital Sovereignty Ltd, Putanga 1.2.0, E whai mana ana i te 2025-11-20. I whakaputaina i roto i ngā reo e rima i te URL ture whakahaere a te kaiwhakahaere.

Ngā Pūtaka Arorau o te Kaupapa o te Kāinga (Stroh, Hui-tanguru 2026). He whakaaturanga tuhinga o te anga Tractatus me tōna tūāpapa arorau nō ngā tikanga e rima.⁷⁰

Ngā Āpiha Kaitiaki me te Mātāpono o te Haepapa AI (Stroh, Poutūterangi 2026). Tuhinga i whakaputaina e whakaata ana i a Wittgenstein, Berlin, Ostrom, Alexander, me Te Ao Māori ki runga i te hanganga o ngā Āpiha Kaitiaki a te kaihanganga. CC BY 4.0.⁷¹

Whakahaere AI mō ngā Hapori, Raupapa Tuhinga (My Digital Sovereignty Ltd, Poutū-te-rangi 2026), tuhinga 01–05. He tohu motuhake ki te Tuhinga 02 (*Te Huringa Mīhana Mā te Whakamahi Hangarau*) me te Tuhinga 05 (*Te Ārai i te Huringa ki ngā Tikanga Ipurangi-ā-Ao*).⁷²⁷³

Tō Mātou Mahere (mysovereignty.digital/our-plan.html) — mahere huarahi mō te wā-roa, whakamahere a te Pūtahi Atāwhai, tauākī whakatūnga o te Poari Kaitohutohu Hangarau, ariā mō te reo whakahaere hapori.

Ngā Uara (mysovereignty.digital/values.html) — e ono ngā mātāpono o te ture matua a te kaiwhakahaere.

Federation (mysovereignty.digital/federation.html) — tauira kirimana federation ā-taha e rua me te tauira whakaaetanga paparanga.

Utu (mysovereignty.digital/pricing.html) — utu taurite mō ia hapori, here i te reiti tīmatanga, here kia 200 mema, me te kotahitanga hei huarahi whakawhānui.

Mai i te Tohu Āwhina ki ngā Ratonga ā-Ao: Me pēhea e tautoko ai ngā Hapori o te Kāinga i a rātou anō (Aperira 2026) — mahere ara tuakana-teina rima-wāhanga, manatārua whakapapa, ehara i ngā tohu, uru ā-koha mō ngā hapori taketake.⁷⁴

Putunga anga Tractatus. <https://codeberg.org/mysovereignty/tractatus-framework>. EUPL-1.2 kua tūtohutia; kei runga i te tono pūtea NGI Zero Commons o Aperira 2026 te auau tuku o nāianeī.

Tika Tārua me te Raihana

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He mana āu ki te:

- **Tiritiri** — tārua, tohatoha anō i ngā rauemi i roto i tētahi pāpāho, tūhāhā rānei.
- **Whakarerekē** — whakahōputu anō, whakarerekē, me te hanga atu i runga i te rauemi mō ngā take katoa, tae atu ki te whakamahinga ā-pakihi.

Kāore e taea e te kaiwhakarato raihana te whakakore i ēnei here here, mēnā ka ū koe ki ngā tikanga o te raihana.

I raro i ngā tikanga e whai ake nei:

- **Tautuhinga** — Me whakamōhio ngā kaiwhakamahi anō i te ingoa tika ki a My Digital Sovereignty Limited me John Stroh hei kaituhi o tēnei mahi, me tuku hono ki te raihana, ā, me whakamōhio mēnā i mahia he panoni. Ka taea te tuku tohu i runga i tētahi huarahi whai tikanga, engari kaua e whakaatu ana e tautoko ana a My Digital Sovereignty Limited, te kaituhi rānei i te kaiwhakamahi anō, i te whakamahinga anō rānei.
- **Kāore he here tāpiri** — Kāore koe e āhei ki te whakamahi i ngā tikanga ture, i ngā tikanga hangarau rānei hei here ture i ētahi atu kia kore ai rātou e mahi i tētahi mea e whakaaetia ana e te raihana.

Ngā Pānui:

- Kāore koe e hiahia kia ū ki te raihana mō ngā wāhanga o te rauemi kei te rāngai tūmatanui, i ngā wā rānei e whakaaetia ana tō whakamahinga e tētahi tūāpapa, tētahi here rānei e hāngai ana.
- Kāore he raihana e tukuna. Tērā pea kāore te raihana nei e tuku i ngā whakaaetanga katoa e hiahia ana mō tō whakamahinga kua whakaritea. Hei tauira, tērā pea ka aukati ētahi atu mana, pērā i ngā mana whakatairanga, ngā mana tūmataiti, ngā mana ā-iwi rānei, i tō whakamahinga i te rauemi.

Ngā āhua tohutoro kua tūtohutia

Tohu kōrero katoa (āhua Chicago kaituhi-tau).

Stroh, John [ORCID 0009-0005-2933-7170]. 2026. *Te Ōritetanga Tohatoha Mā te Hanganga: He Tauira Mahi Ā-Hapori mō te Piri o ngā Uara*. Putanga 1.0. My Digital Sovereignty Limited, Aotearoa New Zealand. I whakaputaina i te 16 o Paenga-whāwhā 2026. DOI: 10.5281/zenodo.19600614. Putanga HTML kei <https://agenticgovernance.digital/whitepapers/distributive-equity.html>. I whakawhiwhia ki raro i te raihana Creative Commons Attribution 4.0 International (CC BY 4.0).

Tohu poto (i roto i te tuhinga).

Stroh (2026)

BibTeX.

```
@misc{stroh2026distributive,
  kaituhi      = {Stroh, John},
  taitara      = {Te Ūritetanga Whakawhānui mā te Hanganga:
                 He Tauira Mahi ā-Hapori mō te Piri o ngā Uara},
  me pēhea i whakaputaina = {My Digital Sovereignty Limited, Aotearoa New Zealand},
  putanga     = {1.0},
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  orcid       = {0009-0005-2933-7170},
  tuhipoka    = {Putanga HTML kei https://agenticgovernance.digital/whitepapers/distribut
}
}
```

Whakapā

Mō ngā pātai mō te tohutoro, te raihana, te whai wāhi hōhonu ki te tautohetohe, rānei te whakatika hapa:

John Stroh, Kaiwhakahaere, My Digital Sovereignty Limited ORCID: <https://orcid.org/0009-0005-2933-7170> DOI (tēnei pepa): <https://doi.org/10.5281/zenodo.19600614> īmēra: john.stroh@mysovereignty.digital paetukutuku kaiwhakaputa: <https://mysovereignty.digital> pae rangahau: <https://agenticgovernance.digital>

Metadata raihana e taea te pānui e ngā mīhini

Ko te putanga HTML kua whakaputaina o tēnei pepa e whakauru ana i ngā metadata e whai ake nei ki te upoko o tōna tuhinga mō te tohutoro aunoa me te rapu raihana:

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<meta ingoa="dcterms.manifest" tūmomo="© 2026 My Digital Sovereignty Limited. I raihanahia i raro" />
<meta ingoa="dcterms.license" tūāhanga="https://creativecommons.org/licenses/by/4.0/">
<meta ingoa="dcterms.creator" tūāhanga="John Stroh">
<kupu matua ingoa="dcterms.publisher" tūmomo="Tōku Rangatiratanga Matihiko Herenga">
<meta ingoa="dcterms.dateSubmitted" tūāhanga="2026-04-16">
```

Putanga 1.0 — te putanga tuatahi kua arotakehia. Kei roto i te V1.0 he arotake nui o te Wāhanga 5 (ngā mātāpono i ahu mai i te ahurea Māori) nā Dr Karaitiana Taiuru, nāna i tono kia whakatikahia tētahi rerenga kōrero i whakamārama hē i te mana o Te Mana Raraunga me ngā Mātāpono CARE

hei "whakamārama ā-ture mātauranga" i te wā he anga whai mana motuhake ēnei, ā, i warewarehia e tō rātou whakamārama taketake te tū o Te Tiriti o Waitangi hei tūāpapa. Kei te wātea te whakatikatika i ngā putanga o ngā reo e rima katoa. E whakamanahia ana ngā arotake me ngā whakawhānuitanga anō ki te wāhitau kei runga ake nei, ā, ka whakaatuhia ēnei i ngā putanga e whai ake nei. Kāore anō te kaituhi kia pānui i te whakaputanga pukapuka-roa o te kaupapa Blockx i whakahuahia; i ahu ngā tohutoro ki te kaupapa i ngā whakarāpopototanga tūmatanui o te kaupapa, ā, ko tētahi putanga ā muri ake nei e whakauru ana i ngā tohutoro pukapuka tūturu ka tukuna hei V1.1, hei teitei ake rānei.

My Digital Sovereignty Limited — Aotearoa New Zealand, 16 Paenga-whāwhā 2026.

-
1. Ko te kaupapa "Te Whakahaere i te Mana Pūnaha-ā-Taiao o ngā Papanga mā te Ture Kirimana me te Ture Whakataetae" he kaupapa rangahau pūtea-ā-FWO i te Whare Wānanga o Antwerp, Takiwā Ture, me Jan Blockx (kaiāwhina kaiako e whai ana ki te tūranga pūmau, ture ōhanga o Europi) hei kairangahau matua, e kapi ana i ngā tau 2022–2025. Ka whakawhanake te kaupapa i tētahi tauira ture pūnaha-ā-taiao e whakauru ana i ngā āhuatanga e toru o te papanga mana — te papanga hei kaitiaki o te papanga, hei kaihangā ture o ngā hononga i roto i te pūnaha taiao, ā, hei kaiuru kirimana me ngā mana me ngā haepapa i roto i te pūnaha taiao. Ko te tauira toru-mahi e whakamahia ana puta noa i tēnei pepa i tangohia mai i ngā whakarāpopototanga tūmatanui o te kaupapa; kāore te kaituhi o tēnei pepa i pānui i te whakaputanga roa pukapuka o te kaupapa, ā, kāore ia e tohu tika ana.
 2. Li, Yibo. "Te Whakamārama i te Mana o te Pūnaha-ā-Taiao: te Whakamahi i ngā Tautuhinga Utu me ngā Tautuhinga Kirimana." *Utrecht Law Review*, Rōpū 21, Putanga 1 (Mahuru 2025), whārangi 4–18. DOI: 10.36633/ulr.1097. Ka whakamōhio i te mana pūnaha taiao hei mea motuhake i te mana māketē tuku iho me te mana whiriwhiringa; ka tautuhi i te utu me ngā āwhina kirimana hei tikanga matua mā ngā papa hei whakaawe i te tohatoha oranga i waenga i ngā kaiuru; ka tūtohu i te tika tohatoha hei whakaaro ārai-whakataetae anō.
 3. Ko te kaupapa "Te Whakahaere i te Mana Pūnaha o ngā Papanga mā te Ture Kirimana me te Ture Whakataetae" he kaupapa rangahau i pūteaia e FWO i te Whare Wānanga o Antwerp, Takiwā Ture, me Jan Blockx (kaiāwhina akoranga e whai ana ki te tūranga pūmau, ture ōhanga o Europi) hei kairangahau matua, e kapi ana i ngā tau 2022–2025. Ka whakawhanake te kaupapa i tētahi tauira ture e hāngai ana ki te pūnaha e whakauru ana i ngā āhuatanga e toru o te papanga mana — te papanga hei kaitiaki o te papanga, hei kaihangā ture o ngā hononga i roto i te pūnaha taiao, ā, hei kaiuru kirimana me ngā mana me ngā haepapa i roto

i te pūnaha taiao. Ko te tauira ā-mahi e toru, e whakamahia ana puta noa i tēnei pepa, i ahu mai i ngā whakarāpopototanga tūmatanui o te kaupapa; kāore te kaituhi o tēnei pepa i pānui i te whakaputanga roa pukapuka o te kaupapa, ā, kāore ia e tohu tika ana ki reira.

4. Li, Yibo. "Te Whakamārama i te Mana o te Pūnaha-ā-Taiao: te Whakamahi i ngā Tautuhinga Utu me ngā Tautuhinga Kirimana." *Utrecht Law Review*, Rōpū 21, Putanga 1 (Mahuru 2025), whārangi 4–18. DOI: 10.36633/ulr.1097. Ka whakauru i te mana pūnaha taiao hei mea motuhake i te mana māketē tuku iho me te mana whiriwhiringa; ka tautuhi i te utu me ngā whakawhitinga kirimana hei tikanga matua mā ngā papa hei awe i te tohatoha oranga o ngā kaiuru; ka tūtohu i te tika tohatoha hei whakaaro ārai-whakataetae anō.
5. Stroh, John. *Ngā Mātanga Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Māori i roto i tētahi anga whakahaere whakaputa*. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/guardian-agents-philosophy.html>. Rāhina: CC BY 4.0 ā-Ao.
6. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa o te Hāpori: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Māramatanga-ā-Iwi*. My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture ā-motu e toru ngā paparanga, ngā anga matatika e ono kāore e taea te whakaiti, he rerekē (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakamana hei ture Tractatus (Hononga Hōhonu, Whakawhitinga e Tiaki Ana i te Hanganga, Ngā Taumata, Te Tukanga Ora, Kāore i te Motuhake), me ngā tikanga mātauranga e tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina, ā, kua whakahuatia i ētahi atu wāhi o ēnei tohutoro.
7. *Te Whakahaere i te AI i ngā Horopaki Hapori me ngā Rōpū Kore-Hua: Te AI hei Ratonga mō te Mīhana*. Tuhinga 2 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina i <https://mysovereignty.digital/articles/ai-governance-series-02.html>. He tohutoro motuhake ki te wāhanga 'Te Huringa o te Mīhana Mā te Whakamahi Hangarau'.
8. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina i <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga 'Te Ara i te Huri ki ngā Tikanga o te Ipurangi ā-Ao', e tuhi ana i te huringa uara o ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi, me ngā urupare hanganga ki tērā.
9. Sy.Digital. *Hanganga Rōpū Mana-ā-Kaihautū: He Paradigima Hou mō te Rangatiratanga Matihiko*. Puka mā ā-roto, tuhinga waehere STO-INN-

0002, putanga 2, i te 22 o Āperira 2025. Kaituhi John Stroh (me te āwhina a te AI). Whakarāpopototanga Whakahaere o te tuhinga e whakaahua ana i te huringa mai i ngā taumata whakahaere mātauranga ki tētahi whakahaere ā-wāhanga e hāngai ana ki ngā tirohanga wā me te mauroa o ngā pārongo; e kī ana tana Wāhanga 1.1 i hoahoatia ngā taumata whakahaere tuku iho hei whakahaere mātauranga hei mātāpono matua whakarite, ā, ka pakaru te tūāpapa o te whakahaere taumata ina wātea whānuitia te mātauranga mā te AI; ko tana Wāhanga 10 e taitara ana *Hei tua atu Pūnaha whakahaere ā-tari*. Ka whakahuatia tēnei tuhinga i konei hei taonga ā-roto, he mea tawhito nō te whanaketanga hinengaro o te kaituhi, ā, ka kape-ā-tuhi i ngā wā e hāngai ana. Kei te wātea te tuhinga katoa mēnā ka tonoa ki te kaituhi; kāore i whakaputaina ki te marea.

10. Nā tētahi tuhinga kāore i tukuna o te tono āwhina pūtea NGI Fediversity a te kaiwhakahaere i tangohia ai tēnei rerenga, i penapenahia ki `docs/strategy/DRAFT Fediversity Application paragraphs 290326.mdi` roto i te putunga tūmataiti a te kaiwhakahaere, nā John Stroh i tuhi te wāhanga, Poutū-te-rangi 2026. I whakahuatia tonu me te whakaaetanga a te kaituhi.
11. *Te Whakahaere AI i ngā Horopaki Hapori me ngā Rōpū Kore-Hua: AI hei Ratonga mō te Mīhana*. Tuhinga 2 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/ai-governance-series-02.htm> l. He tohu motuhake ki te wāhanga '*Te Huringa o te Mīhana Mā te Whakamahī Hangarau*'.
12. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina i <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga '*Te Ara i te Huringa ki ngā Tikanga o te Ipurangi ā-Ao*', e tuhi ana i te huringa uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi, me ngā urupare hanganga ki tērā.
13. MacIntyre, Alasdair. *After Virtue: A Study in Moral Theory*. University of Notre Dame Press, 1981 (tuatahi); tuarua 1984; tuatoru 2007. E ai ki a MacIntyre, he toenga pakaru noa iho te kōrero matatika o nāiane i ngā tikanga tawhito i tohatohahia, ā, e anga whakamua ana te wero matatika o nāiane me te kore anga whāinga e āhei ai kia whakaaetia. I whakahuatia i te Wāhanga 2.2 hei pou kotahi o te rangahau mō te huringa mai i te hapori ki te takitahi e whakamārama ana i te tātaritanga a te kaituhi mō te piri-ā-uara.
14. Taylor, Charles. *Ngā Pūtake o te Tangata: Te Waihanga o te Tuakiri Hou*. Harvard University Press, 1989. Ko te kōrero hītori, tātaritanga hoki a Taylor e mea ana kua whai te tuakiri hou i ngā pūtake matatika

- kanorau, ā, i ētahi wā kāore e taea te whakakotahi, ā, ko te ātomism — te tirohanga e mea ana ko te tangata takitahi anake te wāhi tika mō te uara — he āhuatanga ahurea, ehara i te mea taiao. Tirohia hoki a Taylor, *The Ethics of Authenticity* (Harvard University Press, 1991) mō te whakapuakitanga poto o te ariā mō te pōuritanga o te ao hou.
15. Bellah, Robert N., Richard Madsen, William M. Sullivan, Ann Swidler, me Steven M. Tipton. *Ngā Tikanga o te Ngākau: Te Takitahi me te Manawanui i te Ora o Amerika*. University of California Press, 1985. He rangahau whakamātau-whakamārama mō te taumaha i waenga i te takitahi me te hāpori i roto i te hāpori Amerikana o te mutunga o te wā hou; ko te pukapuka kupu tuatahi e ingoa ana i te raru mō te nuinga o ngā wānanga ā-hāpori-ā-tōrangapū i muri mai.
 16. Putnam, Robert D. *Bowling Alone: Te Huringa me te Whakahou o te Hāpori o Amerika*. Simon & Schuster, 2000. Ngā tuhinga aromatawai e whakaatu ana i te hekenga o te pūtea pāpori — te whai wāhi ki ngā rōpū ā-iwi, ngā whatunga pāpori kore-ā-ture, me ngā mahi ā-rōpū e hāngai ana ki te whakawhirinaki — i Amerika i te haurua tuarua o te rautau rua tekau. I whakahuatia i te Wāhanga 2.2 hei whakamana aromatawai i te panoni i whakautua e ngā mahi a te kaituhi i mua i te Village.
 17. Sandel, Michael J. *Te Kore-mārire o te Manapori: A Amerika e Rapu ana i tētahi Mātāpono Tūmatanui*. Harvard University Press, 1996. E kī ana kua whakakapi te rangatōpū here tikanga — te tirohanga e mea ana me noho pūmau te mātāpono tōrangapū ki ngā ariā whai-kiko mō te pai — i te tikanga tūmatanui i roto i tēnei tikanga ka whakawhanaungatia e ngā tāngata whenua te kawenga ki te whakatipu i ngā āhuatanga o te āhua e hiahiatia ana mō te whakahaere i a rātou anō. Ko ngā mahi whakamutunga a Sandel, otirā ko *What Money Can't Buy: The Moral Limits of Markets* (Farrar, Straus and Giroux, 2012), e whakawhānui ana i te kōrero ki te hokohoko i ngā taonga kāore e tika ana kia hokona.
 18. Piketty, Thomas. *Kapita i te Rautau Rua Tekau mā Tahi*. I whakamāoritia mai i te reo Wīwī e Arthur Goldhammer, Harvard University Press, 2014 (i whakaputaina tuatahi i te reo Wīwī hei *Le capital au XXI^e siècle*, Éditions du Seuil, 2013). Tātaritanga ā-tau roa ā-taupū mō ngā āhuatanga whakakotahitanga pūtea i raro i te kapitalitā hou; ko te kerēme matua a Piketty — arā, ka nui ake te tere whakahoki moni o te pūtea i te tere tipu ōhanga, ka whānui haere te ōritetanga i te roanga o te wā — kua whakahuatia anake i konei hei wāhanga o ngā rangahau papamuri mō ngā āhuatanga whakakotahitanga, ehara i te kerēme e tū ana te pepa ki tētahi taha.
 19. Berlin, Isaiah. "Te Whai i te Tino Whāinga." 1988 Kōrero whiwhinga Tohu Agnelli. I tāruarua ki roto i *The Crooked Timber of Humanity: Chapters in the History of Ideas*, i whakatikahia e Henry Hardy, Princeton University Press, 1990. Ko tēnei tuhinga te whakapuakitanga tino mārama rawa a

Berlin i tōna pakeke mō te tirohanga e mea ana ko te maha o ngā uara tūturu a te tangata he āhuatanga o te oranga tangata, ehara i te ārai pouri mō te hanga anga matatika kotahi. E tohu ana te taitara o te pukapuka ki te rerenga a Kant "*Aus so krummem Holze, als woraus der Mensch gemacht ist, kann nichts ganz Gerades gezimmert werden*" — "Mai i te rakau piko o te tangata, kāore he mea tika i hangaia" — ā, e whakamahia ana e Berlin hei whakarāpopoto i tōna tūnga.

20. Berlin, Isaiah. *Four Essays on Liberty*. Oxford University Press, 1969. Kei roto ko "Two Concepts of Liberty" (1958) — te wehewehe i waenga i te rangatiratanga ā-kore me te rangatiratanga ā-pū — me ētahi atu tuhinga e pā ana, i roto i ēnei ka whakawhanake a Berlin i te take e maha ana ngā uara tūturu a te tangata, kāore e taea te whakataurite i ētahi wā, ā, he maha ngā wā ka taupatupatu.
21. Gray, John. *Isaiah Berlin*. HarperCollins, 1995; i whakaputaina anō e Princeton University Press, 1996, i raro i te taitara *Isaiah Berlin: An Interpretation of His Thought*. E ai ki te rangahau whakamārama a Gray, ko te maha o ngā uara te koha matua, te mea tūroa rawa atu a Berlin, ā, he tino rerekē te maha o ngā uara a Berlin i te whanautanga-ā-horopaki me te whanautanga-ā-tangata: ko te maha o ngā uara e tohu ana i te āhuatanga tūturu, arā, e maha ana ngā mea pai tūturu, ā, kāore e taea te whakakore i te kōwhiringa a te tangata i waenga i ēnei, me te kore e whakakore i ngā āhuatanga motuhake o te oranga tangata.
22. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa o te Hāpori: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Māramatanga-Tini*. My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture ā-tūtohu e toru ngā paparanga, ngā anga matatika e ono kāore e taea te whakaiti i tō rātou rerekētanga (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakamāramahia hei ture Tractatus (Hononga Hōhonu, Whakawhitinga e Tiaki Ana i te Hanganga, Ngā Taumata, Te Tukanga Ora, Kāore i te Motuhake), me ngā tikanga mātauranga e tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina i whakahuatia i ētahi atu wāhi o ēnei tohutoro.
23. Stroh, John. *Ngā Kaihautū Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Māori i roto i tētahi anga whakahaere whakaputa*. Nōku Te Rangatiratanga Matihiko Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/guardian-agents-philosophy.html>. Rāhina: CC BY 4.0 ā-Ao.
24. Stroh, John. *Ngā Āpiha Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te Whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Maori i roto i tētahi Hanganga Whakahaere Whakaputa*. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://my>

sovereignty.digital/articles/guardian-agents-philosophy.html. Rāhina: CC BY 4.0 ā-Ao.

25. Berlin, Isaiah. "Te Whai i te Tino." 1988 Kōrero whiunga Agnelli. I tāpirihia anō ki *The Crooked Timber of Humanity: Chapters in the History of Ideas*, i whakatikahia e Henry Hardy, Princeton University Press, 1990. Ko tēnei tuhinga te whakapuakitanga tino mārama, kua pakeke, a Berlin mō te tirohanga e mea ana ko te maha o ngā uara tūturu a te tangata he āhuatanga o te oranga tangata, ehara i te ārai pouri ki te hanga i tētahi anga matatika kotahi. E tohu ana te taitara o te pukapuka ki te rerenga a Kant "*Aus so krummem Holze, als woraus der Mensch gemacht ist, kann nichts ganz Gerades gezimmert werden*" — "Mai i te rakau piko o te tangata, kāore he mea tika i hangaia" — ā, e whakamahia ana e Berlin hei whakarāpopoto i tōna tūnga.
26. Berlin, Isaiah. *Four Essays on Liberty*. Oxford University Press, 1969. Kei roto i reira te tuhinga "Two Concepts of Liberty" (1958) — te wehewehe i waenga i te rangatiratanga ā-kore me te rangatiratanga ā-pū — me ngā tuhinga e hāngai ana i whakawhanake ai a Berlin i te take e maha ana ngā uara tūturu a te tangata, kāore e taea te whakataurite i ētahi wā, ā, he maha ngā wā e taupatupatu ana.
27. Gray, John. *Isaiah Berlin*. HarperCollins, 1995; i whakaputaina anō e Princeton University Press, 1996, i raro i te taitara *Isaiah Berlin: An Interpretation of His Thought*. E ai ki te rangahau whakamārama a Gray, ko te maha o ngā uara te koha matua, te mea tūroa rawa atu a Berlin, ā, he tino rerekē te maha o ngā uara a Berlin i te whanautanga-ā-āhuatanga me te whanautanga-ā-tangata: ko te maha o ngā uara e tohu ana i te āhuatanga tūturu, arā, e maha ana ngā mea pai tūturu, ā, kāore e taea te whakakore i te kōwhiringa a te tangata i waenga i ēnei me te kore e whakakore i ngā āhuatanga motuhake o te oranga tangata.
28. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa o te Hāpori: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Māramatanga-Tini*. My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture ā-tūtohu e toru ngā paparanga, ngā anga matatika e ono kāore e taea te whakaiti i tō rātou rerekētanga (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakamunatia hei ture Tractatus (Hononga Hōhonu, Whakawhitinga e Tiaki ana i te Hanganga, Ngā Taumata, Te Tukanga Ora, Kāore i te Motuhake), me ngā tikanga mātauranga e tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina i whakahuatia i ētahi atu wāhi o ēnei tohutoro.
29. Stroh, John. *Ngā Āpiha Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te Whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Māori i roto i tētahi Hanganga Whakahaere Whakaputa*. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://my>

sovereignty.digital/articles/guardian-agents-philosophy.html. Rāhina: CC BY 4.0 ā-Ao.

30. Ostrom, Elinor. *Te Whakahaere i ngā Rawa Tūmatanui: Te Whanaketanga o ngā Whakahaere mō te Mahi ā-Rōpū*. Cambridge University Press, 1990. Ka tohu te kaituhi i te pukapuka o te tau 1990 hei puna matua mō te whakahaere pokapū maha me ngā umanga whakauru; ka whakawhānui a Ostrom i āna mahi whai muri mō ngā pūnaha ā-hapori-ā-taiao i tēnei tūāpapa, ā, kua whakaurua ki te maimoatanga o te kotahitanga ā-kāinga i roto i te anga Tractatus.
31. Alexander, Christopher, Sara Ishikawa, me Murray Silverstein. *A Pattern Language: Towns, Buildings, Construction*. Oxford University Press, 1977. Ko ngā tauira 253 i roto i te pukapuka e hanga ana i te tūāpapa tikanga mō ngā ture e rima o te anga Tractatus i whakarārangiā i roto i `inst_090` ki `inst_094` — Deep Interlock, Structure-Preserving Panoni, Ngā Taumata Hei Kaitiaki i ngā Rohe, Te Tukanga Ora, me te Kore-Wehe. Ko ngā mahi whakamutunga a Alexander, arā ko *Te āhua o te Raupapa* (Ngā Puka 1–4, 2002–2004), e whakawhanake ana i te ariā o ngā pūnaha ora i tangohia ai e te mātāpono "Te Tukanga Ora".
32. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa o te Hāpori: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Māngai-Maha*. My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture ā-motu e toru ngā paparanga, ngā anga matatika e ono kāore e taea te whakaiti, he rerekē (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakamana hei ture Tractatus (Whakawhitinga Hōhonu, Whakawhitinga e Tiaki Ana i te Hanganga, Ngā Taumata, Te Tukanga Ora, Kāore i te Motuhake), me ngā tikanga mātauranga tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina i whakahuatia i ētahi atu wāhi o ēnei tohutoro.
33. Ngā Mātāpono CARE mō te Whakahaere Raraunga Taketake (Painga ā-Hapori, Mana Whakahaere, Haepapa, Tikanga) i whakawhanakehia e te Kotahitanga Raraunga Taketake o te Ao. I whakaputaina ki <https://www.gida-global.org/care>. I whakahua i roto i te ture whakahaere me te whārangi uara o te kaiwhakahaere.
34. Te Mana Raraunga — Māori Data Sovereignty Network, i whakatūria i te tau 2015, e whakaputa ana i ngā mātāpono o te rangatiratanga raraunga Māori i <https://www.temanararaunga.maori.nz/>. Ko ngā mātāpono e ono — rangatiratanga, whakapapa, whanaungatanga, kotahitanga, manaakitanga, kaitiakitanga — ka whakahuatia puta noa i tēnei pepa, ā, ka whakahuatia hoki i roto i te ture tūtohu a te kaiwhakahaere me te tuhinga ariā a ngā Guardian Agents.
35. Stroh, John. *Guardian Agents me te Aronga Wairua o te Haepapa AI: Me pēhea te whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te*

Ao Māori i roto i tētahi Hanganga Whakahaere Whakaputa. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/guardian-agents-philosophy.html>. Rāhina: CC BY 4.0 ā-Ao.

36. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa o te Hāpori: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Mātauranga-ā-Iwi.* My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture ā-motu e toru ngā paparanga, ngā anga matatika e ono kāore e taea te whakaiti, he rerekē (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakakōpīhia hei ture Tractatus (Hononga Hōhonu, Whakawhitinga e Tiaki Ana i te Hanganga, Ngā Taumata, Te Huringa Ora, Kāore i te Motuhake), me ngā tikanga mātauranga e tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina i whakahuatia i ētahi atu wāhi o ēnei tohutoro.
37. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa Kāinga: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Mātauranga-Tini.* My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture ā-papa e toru, ngā anga matatika e ono e tino rerekē ana (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakamunatia hei ture Tractatus (Hononga Hōhonu, Whakawhitinga e Tiaki ana i te Hanganga, Ngā Taumata, Te Tukanga Ora, Kāore i te Motuhake), me ngā tikanga mātauranga e tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina i whakahuatia i ētahi atu wāhi o ēnei tohutoro.
38. *Kōtūi o ngā Hapori.* My Digital Sovereignty Ltd, i whakaputaina i <https://mysovereignty.digital/federation.html>. He tauira kirimana kotui ā-taha e rua me tētahi tauira whakaaetanga paparanga. I whakahuatia hei whakamārama tūmatanui mō te hanganga kotui i tohua i te Wāhanga 3.1 me te Wāhanga 6.3 o tēnei pepa.
39. *Ture Whakahaere o My Digital Sovereignty Ltd,* Putanga 1.2.0, whai mana i te 2025-11-20, whakahōutia whakamutunga i te 2026-03-27. I whakaputaina ki <https://mysovereignty.digital/constitutions/my-digital-sovereignty-ltd.mdi> roto i te reo Ingarihi, Tiamana, Wīwī, Awheretā, me te reo Māori.
40. *Ngā Uara.* My Digital Sovereignty Ltd, i whakaputaina ki <https://mysovereignty.digital/values.html>. E ono ngā mātāpono matua: Te Rangatiratanga Tuatahi, Te Matatapu hei Taunoa, Te Kanorau i runga i te Kotahitanga, Te Mārama me te Haepapa, Te Haumaruru me te Kore Aroturuki, He Tauira Pakihi toitū. E kīia ana i konei hei whakarāpopototanga kua whakaputaina o ngā ū ki ngā uara a te kaiwhakahaere.

41. *Tō mātou Aronga*. My Digital Sovereignty Ltd, i whakaputaina ki <https://mysovereignty.digital/philosophy.html>. E whā ngā mātāpono matua e whakarāpopototia ana ngā ū ki raro i te anga Tractatus: Mana Tangata, Rangatiratanga Raraunga, Hapori Tuatahi, Mārama Tūturu. Kei te rārangi hoki i te whārangi ngā awe arorangi e whakamahia ana e te anga, tae atu ki a Ostrom, Te Mana Raraunga, ngā Mātāpono CARE, me te ariā umanga-ā-mahi tahi.
42. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga '*Te Ārai i te Arahitunga ki ngā Tikanga o te Ipurangi-ā-Ao*', e tuhi ana i te huringa uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi, me ngā urupare hanganga ki tērā.
43. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i roto i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga *E Whakatete ana ki te Arahitunga ki ngā Tikanga ā-Ipurangi ā-Ao*, e tuhi ana i te huringa uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi me ngā urupare hanganga ki tērā.
44. Stroh, John. *Ngā Māngai Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Māori i roto i tētahi Hanganga Whakahaere Whakaputa*. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/guardian-agents-philosophy.html>. Rāhina: CC BY 4.0 ā-Ao.
45. *AI o te Kāinga: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga *E Ārai ana i te Arahitunga ki ngā Tikanga o te Ipurangi-ā-Ao*, e tuhi ana i te ngaromanga uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi, me ngā urupare hanganga ki tērā.
46. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i roto i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga *E Ārai ana i te Huri ki ngā Tikanga o te Ipurangi-ā-Ao*, e tuhi ana i te huringa uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi me ngā urupare hanganga ki tērā.
47. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-

- rangi 2026. I whakaputaina i <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga 'Te Ārai i te Haeretanga ki ngā Tikanga o te Ipurangi-ā-Ao', e tuhi ana i te huringa uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi, me ngā urupare hanganga ki tērā.
48. Stroh, John. *Ngā Māngai Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Māori i roto i tētahi Hanganga Whakahaere Whakaputa*. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/guardian-agents-philosophy.html>. Rāhina: CC BY 4.0 ā-Ao.
 49. *Mai i te Tohutohu Awhina ki ngā Ratonga ā-Ao: Me pēhea e tautoko ai ngā Hapori o te Kāinga i a rātou anō*. My Digital Sovereignty Ltd, Paenga-whāwhā 2026. I whakaputaina ki <https://mysovereignty.digital/articles/support-services-tuakana-teina.html>. Mahere arataki mō te whakangungu tuākana-teina e rima ngā wāhanga; ū ki te whakamānawa mā te whakapapa, ehara i ngā tohu; uru i runga i te pūtake koha i te Wāhanga 4.
 50. *Mai i te Tohutohu Awhina ki ngā Ratonga ā-Ao: Me pēhea e tautoko ai ngā Hapori o te Kāinga i a rātou anō*. My Digital Sovereignty Ltd, Paenga-whāwhā 2026. I whakaputaina i <https://mysovereignty.digital/articles/support-services-tuakana-teina.html>. Mahere arataki tuakana-teina i ngā wāhanga e rima; whakamanatanga mā te whakapapa, ehara i ngā tohu; uru i runga i te pūtake koha i te Wāhanga 4.
 51. Ko te kaupapa "Te Whakahaere i te Mana Pūnaha o ngā Papanga mā te Ture Kirimana me te Ture Whakataetae" he kaupapa rangahau i pūteaia e FWO i te Wānanga o Antwerp, Te Kura Ture, me Jan Blockx (kaiāwhina pūtaiao e whai ana ki te tūranga mauroa, ture ōhanga o Europi) hei kairangahau matua, e kapi ana i ngā tau 2022–2025. Ka whakawhanake te kaupapa i tētahi tauira ture e hāngai ana ki te pūnaha, e whakauru ana i ngā āhuatanga e toru o te papanga mana — te papanga hei kaitiaki o te papanga, hei kaihanganga ture o ngā hononga i roto i te pūnaha taiao, ā, hei kaiuru kirimana me ngā mana me ngā haepapa i roto i te pūnaha taiao. Ko te tauira toru-mahi e whakamahia ana puta noa i tēnei pepa i tangohia mai i ngā whakarāpopototanga tūmatanui o te kaupapa; kāore te kaituhi o tēnei pepa i pānui i te whakaputanga roa pukapuka o te kaupapa, ā, kāore ia e kī tika ana i ngā kōrero.
 52. Li, Yibo. "Te Whakamārama i te Mana o te Pūnaha-ā-Taiao: te Whakamahi i ngā Tautuhinga Utu me ngā Tautuhinga Kirimana." *Utrecht Law Review*, Rōpū 21, Putanga 1 (Mahuru 2025), whārangi 4–18. DOI: 10.36633/ulr.1097. Ka whakauru i te mana pūnaha taiao hei mea motuhake i te mana māketē tuku iho me te mana whiriwhiringa; ka tautuhi i te utu me ngā āputa kirimana hei tikanga matua mā ngā papa

hei awe i te tohatoha oranga i waenga i ngā kaiuru; ka tūtohu i te tika tohatoha hei whakaaro ārai-whakataetae anō.

53. Ko te kaupapa "Te Whakahaumanu i te Mana Pūnaha o ngā Papamahi mā te Ture Kirimana me te Ture Whakataetae" he kaupapa rangahau i pūteaia e te FWO i te Tari Ture o te Whare Wānanga o Antwerp, ā, ko Jan Blockx (kaiāwhina akoranga e whai ana ki te tūranga pūmau, ture ōhanga o Europi) te kairangahau matua, e kapi ana i ngā tau 2022–2025. Ka whakawhanake te kaupapa i tētahi tauira ture e hāngai ana ki te pūnaha, e whakauru ana i ngā āhuatanga e toru o te papamahi mana — te papanga hei kaitiaki o te papanga, hei kaihanganga ture o ngā hononga i roto i te pūnaha taiao, ā, hei kaiuru kirimana me ngā mana me ngā haepapa i roto i te pūnaha taiao. Ko te tauira toru-mahi e whakamahia ana puta noa i tēnei pepa i tangohia mai i ngā whakarāpopototanga tūmatanui o te kaupapa; kāore te kaituhi o tēnei pepa i pānui i te whakaputanga roa pukapuka o te kaupapa, ā, kāore ia e kī tika ana.
54. Li, Yibo. "Te Whakaahua i te Mana Pūnaha-ā-Taiao: te Whakamahi i ngā Tautāwhi Utu me ngā Tautāwhi Kirimana." *Utrecht Law Review*, Rōpū 21, Putanga 1 (Mahuru 2025), whārangi 4–18. DOI: 10.36633/ulr.1097. Ka whakauru i te mana pūnaha taiao hei mea motuhake i te mana māketē tuku iho me te mana whiriwhiringa; ka tautuhi i te utu me ngā āwhina kirimana hei tikanga matua mā ngā papa hei awe i te tohatoha oranga i waenga i ngā kaiuru; ka tūtohu i te tika tohatoha hei whakaaro ārai-whakataetae anō.
55. Ka matapakihia anō te maha-uara a Berlin i roto i te tomokanga o te Pukapuka Pūtaiao Hinengaro o Stanford mō te Maha-uara (<https://plato.stanford.edu/entries/value-pluralism/>). Kua whakahuatia konei te tomokanga o te SEP, ehara i ngā tuhinga matua, nā te mea ka whakarato te SEP i tētahi whakakotahitanga mana whakahaere o te tūnga a Berlin puta noa i ngā *Tuhinga Ewhā mō te Rangatiratanga* me ngā tuhinga i muri mai.
56. Ostrom, Elinor. *Governing the Commons: The Evolution of Institutions for Collective Action*. Cambridge University Press, 1990. Ka whakahua te kaituhi i te pukapuka o te tau 1990 hei puna matua mō te whakahaere ā-pokapū maha me ngā umanga whakauru; ka whakawhānui a Ostrom i āna mahi whai muri mō ngā pūnaha pāpori-taiao i runga i tēnei tūāpapa, ā, kua whakaurua ki roto i te maimoatanga o te anga Tractatus mō te kotahitanga ā-kāinga.
57. Alexander, Christopher, Sara Ishikawa, me Murray Silverstein. *A Pattern Language: Towns, Buildings, Construction*. Oxford University Press, 1977. Ko ngā tauira 253 i roto i te pukapuka e hanga ana i te tūāpapa tikanga mō ngā ture e rima o te anga Tractatus i whakarārangihia i roto i *inst_090* ki *inst_094* — Deep Interlock, Structure-Preserving Panoni, Ngā Taumata Hei Kaitiaki i ngā Rohe, Te Tukanga Ora, me te Kore-Wehewehenga. Ko

te mahi whai muri a Alexander , *The Nature of Order* (Ngā Puka 1–4, 2002–2004), e whakawhanake ana i te ariā o ngā pūnaha ora i tangohia ai e te mātāpono o "Te Tukanga Ora".

58. Berlin, Isaiah. "Te Whai i te Tino Whāinga." 1988 Kōrero whiunga Tohu Agnelli. I tāpirihia anō ki roto i *The Crooked Timber of Humanity: Chapters in the History of Ideas*, i whakatikahia e Henry Hardy, Princeton University Press, 1990. Ko tēnei tuhinga te whakapuakitanga tino mārama rawa a Berlin i tōna pakeke mō te tirohanga e mea ana ko te maha o ngā uara tūturu a te tangata he āhuatanga o te oranga tangata, ehara i te ārai pouri ki te hanga i tētahi anga matatika kotahi. E tohu ana te taitara o te pukapuka ki te rerenga a Kant "*Aus so krummem Holze, als woraus der Mensch gemacht ist, kann nichts ganz Gerades gezimmert werden*" — "Mai i te rakau piko o te tangata, kāore he mea tika i hangaia" — ā, e whakamahia ana e Berlin hei whakarāpopoto i tōna tūnga.
59. Berlin, Isaiah. *Four Essays on Liberty*. Oxford University Press, 1969. Kei roto ko "Two Concepts of Liberty" (1958) — te wehewehe i waenga i te rangatiratanga ā-kore me te rangatiratanga ā-pū — me ētahi atu tuhinga e pā ana, i roto i ēnei ka whakawhanake a Berlin i te take e maha ana ngā uara tūturu a te tangata, kāore e taea te whakataurite i ētahi wā, ā, he maha ngā wā ka taupatupatu.
60. Gray, John. *Isaiah Berlin*. HarperCollins, 1995; i whakaputaina anō e Princeton University Press, 1996, i raro i te taitara *Isaiah Berlin: An Interpretation of His Thought*. E ai ki te rangahau whakamārama a Gray, ko te maha o ngā uara te koha matua, te mea tūroa rawa atu a Berlin, ā, he tino rerekē tōna maha o ngā uara i te relativism me te subjectivism: ko te maha o ngā uara e tohu ana i te āhuatanga tūturu, arā, e maha ana ngā mea pai tūturu, ā, kāore e taea te whakakore i te kōwhiringa a te tangata i waenga i ēnei, me te kore e whakakore i ngā āhuatanga motuhake o te oranga tangata.
61. MacIntyre, Alasdair. *After Virtue: A Study in Moral Theory*. University of Notre Dame Press, 1981 (tuatahi); tuarua 1984; tuatoru 2007. E ai ki a MacIntyre, he toenga pakaru noa iho te reo matatika o nāiane i ngā tikanga tawhito i tohatohahia, ā, e anga whakamua ana te wero matatika o nāiane me te kore anga whāinga e āhei ai kia whakaaetia. I whakahuatia i te Wāhanga 2.2 hei pou kotahi o te rangahau mō te huringa mai i te hāpori ki te tangata takitahi e whakamuri ana i te tātaritanga a te kaituhi mō te piri-roa o ngā uara.
62. Taylor, Charles. *Ngā Pūtake o te Tangata: Te Waihanga o te Tuakiri Hou*. Harvard University Press, 1989. Ko te kōrero hitori, tātaritanga hoki a Taylor e mea ana kua whai te tuakiri hou i ngā pūtake matatika kanorau, ā, i ētahi wā kāore e taea te whakakotahi, ā, ko te ātomism — te tirohanga e mea ana ko te tangata takitahi anake te wāhi tika mō

te uara — he āhuatanga ahurea, ehara i te mea taiao. Tirohia hoki a Taylor, *The Ethics of Authenticity* (Harvard University Press, 1991) mō te whakapuakitanga poto o te ariā mō te pōuritanga o te ao hou.

63. Bellah, Robert N., Richard Madsen, William M. Sullivan, Ann Swidler, me Steven M. Tipton. *Ngā Tikanga o te Ngākau: Te Takitahi me te Manawanui i te Ora o Amerika*. University of California Press, 1985. He rangahau whakamātau-whakamārama mō te taumaha i waenga i te takitahi me te hāpori i roto i te hāpori Amerikana o te mutunga o te wā hou; ko te pukapuka kupu tuatahi e ingoa ana i te raru mō te nuinga o ngā wānanga ā-hāpori-ā-tōrangapū i muri mai.
64. Putnam, Robert D. *Bowling Alone: Te Huringa me te Whakahou o te Hāpori o Amerika*. Simon & Schuster, 2000. Ngā tuhinga aromatawai e whakaatu ana i te hekenga o te pūtea pāpori — te whai wāhi ki ngā rōpū ā-iwi, ngā whatunga pāpori kore-ā-ture, me ngā mahi ā-rōpū e hāngai ana ki te whakawhirinaki — i Amerika i te haurua tuarua o te rautau rua tekau. I whakahuatia i te Wāhanga 2.2 hei whakamana aromatawai i te panoni i whakautua e ngā mahi a te kaituhi i mua i te Village.
65. Sandel, Michael J. *Te Kore-mārire o te Manapori: A Amerika e Rapu ana i tētahi Mātāpono Tūmatanui*. Harvard University Press, 1996. E kī ana kua whakakapi te rangatōpū here tikanga — te tirohanga e mea ana me noho pūmau te mātāpono tōrangapū ki ngā ariā whai-kiko mō te pai — i te tikanga tūmatanui i roto i tēnei tikanga ka whakawhanaungatia e ngā tāngata whenua te kawenga ki te whakatipu i ngā āhuatanga o te āhua e hiahiatia ana mō te whakahaere i a rātou anō. Ko ngā mahi whakamutunga a Sandel, otirā ko *What Money Can't Buy: The Moral Limits of Markets* (Farrar, Straus and Giroux, 2012), e whakawhānui ana i te kōrero ki te hokohoko i ngā taonga kāore e tika ana kia hokona.
66. Piketty, Thomas. *Kapita i te Rautau Rua Tekau mā Tahī*. I whakamāoritā mai i te reo Wīwī e Arthur Goldhammer, Harvard University Press, 2014 (i whakaputaina tuatahi i te reo Wīwī hei *Le capital au XXIe siècle*, Éditions du Seuil, 2013). Tātaritanga ā-tau roa ā-taunakitanga o ngā āhuatanga whakakotahitanga pūtea i raro i te kapitalitanga hou; ko te kerēme matua a Piketty — arā, ka piki ake te reiti whakahoki moni i te reiti tipu ōhanga, ā, ka whānui haere te ōritenga i te roanga o te wā — kua whakahuatia anake i konei hei wāhanga o ngā rangahau papamuri mō ngā āhuatanga whakakotahitanga, ehara i te kerēme e tū ana te pepa ki tētahi taha.
67. Sy.Digital. *Hanganga Rōpū Mahi-ā-Kaihāngai: He Paradigima Hou mō te Rangatiratanga Matihiko*. Puka mā ā-roto, tuhinga waehera STO-INN-0002, putanga 2, i te 22 o Aperira 2025. Kaituhi John Stroh (me te āwhina AI). Whakarāpopototanga Whakahaere o te tuhinga e whakaahua ana i te huringa mai i ngā taumata whakahaere mō te mātauranga ki tētahi whakahaere ā-wāhanga e hāngai ana ki ngā tirohanga wā me te

mauroa o ngā pārongo; e kī ana tōna Wāhanga 1.1 i hangaia ngā taumata whakahaere tuku iho i runga i te whakahaere mātauranga hei mātāpono matua whakahaere, ā, ka pakaru te ariā matua o te whakahaere taumata ina wātea whānuitia te mātauranga mā te AI; ko tōna Wāhanga 10 e taitara ana *Hei tua atu Pūnaha ā-tari*. Ka whakahuatia tēnei tuhinga i konei hei taonga ā-roto, he mea tawhito nō te whanaketanga hinengaro o te kaituhi, ā, ka kape-tūturu i ngā wā e hāngai ana. Kei te wātea te tuhinga katoa mēnā ka tonoa ki te kaituhi; kāore i whakaputaina ki te marea.

68. Te Mana Raraunga — Pūnaha Rangatiratanga Raraunga Māori, i whakatūria i te tau 2015, e whakaputa ana i ngā mātāpono o te rangatiratanga raraunga Māori i <https://www.temanararaunga.maori.nz/>. E whakahuatia ana ngā mātāpono e ono — rangatiratanga, whakapapa, whanaungatanga, kotahitanga, manaakitanga, kaitiakitanga — puta noa i tēnei pepa, ā, e whakahuatia ana hoki i roto i te ture matua o te kaiwhakahaere me te tuhinga ariā a ngā Mātanga Kaitiaki.
69. Ngā Mātāpono CARE mō te Whakahaere Raraunga Taketake (Painga ā-Hapori, Mana Whakahaere, Haepapa, Tikanga) i whakawhanakehia e te Kotahitanga Raraunga Taketake o te Ao. I whakaputaina ki <https://www.gida-global.org/care>. I whakahua i roto i te ture matua o te kaiwhakahaere me te whārangi uara.
70. Stroh, John. *Ngā Pūtake Arorau o te Kaupapa o te Hāpori: He Anga mō te Rangatiratanga Matihiko me te Whakahaere AI Māngai-Maha*. My Digital Sovereignty Ltd, Hui-tanguru 2026. E tuhi ana i te hanganga ture toru-ā-papa, ngā anga matatika e ono kāore e taea te whakaiti, he rerekē (deontological, consequentialist, virtue, care, communitarian, indigenous hononga), ngā mātāpono e rima a Alexander i whakamunatia hei ture Tractatus (Hononga Hōhonu, Whakawhitinga e Tiaki Ana i te Hanganga, Ngā Taumata, Te Tukanga Ora, Kāore i te Motuhake), me ngā tikanga mātauranga e tekau mā toru i te Papanga 3. E wātea ana hei tuhinga pūtake mō ngā rauemi kua whakaputaina i whakahuatia i ētahi atu wāhi o ēnei tohutoro.
71. Stroh, John. *Ngā Āpiha Kaitiaki me te Mātāpono o te Haepapa AI: Me pēhea te Whakakotahitanga o Wittgenstein, Berlin, Ostrom, me Te Ao Māori i roto i tētahi Hanganga Whakahaere Whakaputa*. My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina ki <https://mysovereignty.digital/articles/guardian-agents-philosophy.html>. Rāhina: CC BY 4.0 ā-Ao.
72. *Te Whakahaere i te AI i ngā Horopaki Hapori me ngā Rōpū Kore-Hua: Te AI hei Ratonga mō te Mīhana*. Tuhinga 2 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina i <https://mysovereignty.digital/articles/ai-governance-series-02.html>. He tohutoro motuhake ki te wāhanga *'Te Huringa o te*

*Mihana Mā te Whakamahi Hangarau*¹.

73. *Village AI: He Ara Tauira Reo Iti Rangatira*. Tuhinga 5 i te raupapa Whakahaere AI mō ngā Hapori, My Digital Sovereignty Ltd, Poutū-te-rangi 2026. I whakaputaina i <https://mysovereignty.digital/articles/ai-governance-series-05.html>. He tohu motuhake ki te wāhanga *E Ārai ana i te Huringa ki ngā Tikanga o te Ipurangi-ā-Ao*, e tuhi ana i te huringa uara i roto i ngā tauira AI i whakangungua ki ngā raraunga rahi-ipurangi me ngā urupare hanganga ki tērā.
74. *Mai i te Tohu Āwhina ki ngā Ratonga ā-Ao: Me pēhea e tautoko ai ngā Hapori o ngā Kāinga i a rātou anō*. My Digital Sovereignty Ltd, Paenga-whāwhā 2026. I whakaputaina ki <https://mysovereignty.digital/articles/support-services-tuakana-teina.html>. Mahere arataki mō te whakangungu tuākana-teina i roto i ngā wāhanga e rima; te ū ki te whakamōhiotanga whakapapa, ehara i ngā tohu; te uru i runga i te pūtake koha i te Wāhanga 4.