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MICKAI EBOOK SERIES · No. 16

Sovereign Intelligence and the Nation State.

Whoever controls the model layer controls the nation that runs on it.
Data sovereignty is the new national-security infrastructure.

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19 June 2026 · v1 · mickai.co.uk

EBOOK · No. 16 IN A SERIES OF 34

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FOREWORD

A note from the author

I did not set out to write a book about the nation state. I set out to build a Sovereign Intelligence Operating System, the SIOS, because I could see what was coming and I could not find anyone selling the thing a country would actually need. What I found instead was an industry quietly persuading governments that renting intelligence from a handful of foreign providers was the same as owning it. It is not the same. It has never been the same. This book is the argument I wish someone had put in front of every minister, permanent secretary and treasury official three years ago.

I write in the first person because I will not hide behind a committee voice. I am Micky Irons, founder and chief executive of Mickai, and the positions in these pages are mine. We have filed 101 UK patent applications carrying around 2,234 claims, we run fifty specialised brains on the operator's own hardware with full offline capability, and we seal every consequential action into a post-quantum Open Audit Record. I tell you this not to sell but so you know the argument comes from people who had to make the hard parts work, not from people theorising about a layer they have never had to defend.

The thesis is simple enough to state in one breath and uncomfortable enough to spend a book defending. Whoever controls the model layer controls the nation that depends on it. Data sovereignty is no longer a compliance footnote or a privacy nicety. It is national-security infrastructure, on the same shelf as the power grid, the payment rails and the satellites. A country that cannot run, inspect, retrain and switch off its own intelligence does not have a foreign-policy problem. It has a sovereignty problem it has not noticed yet.

Read this as a warning if you like, but I would rather you read it as a plan. Sovereignty over intelligence is achievable, it is affordable next to the cost of losing it, and it is earned at execution rather than declared in a strategy paper. By the last page I want one idea to have lodged itself permanently. Digital independence is not something you announce. It is something you can prove, every time the machine acts, or it does not exist.

Micky Irons

Founder and named inventor, Mickai LTD · 19 June 2026

PART I · THE CAPTURED LAYER

The intelligence your nation runs on is infrastructure, and right now somebody else owns it.

1. The Weight Layer Is National Infrastructure

There is a layer beneath every modern decision that almost no minister has been briefed on properly. It is not the application your civil servants click, nor the cloud region your data sits in, nor even the chips humming in a datacentre. It is the weight layer, the trained parameters of the model itself, the frozen distillation of everything the system has learned and the precise mechanism by which it now reasons, drafts, scores and recommends. Whoever holds those weights holds the actual intelligence. Everything above them is a window onto a brain you do not own.

We have done this before with other utilities and we know how it ends. When a country lost the ability to generate its own power, refine its own fuel or clear its own payments, it did not feel the loss on a calm Tuesday. It felt it the first time the supplier changed the terms, throttled the supply or answered to a different government. The weight layer is now exactly that kind of utility. It is woven into how benefits are assessed, how intelligence is triaged, how procurement is scored and how legal text is drafted, and it has been adopted faster than any infrastructure in living memory with less scrutiny than we apply to a new roundabout.

You can host a model in your own country and still not own a single thing about how it thinks.

The comfortable misconception is that data centres on home soil equal sovereignty. They do not. Sovereignty is not where the electricity is billed. It is whether you can open the model, inspect its weights, retrain it on your own corpus, run it with the network cable physically pulled, and turn it off on your own authority without asking permission. By that test almost every government in the world is renting its intelligence and calling it ownership. The SIOS exists because I refused to accept that the test could not be passed. Fifty specialised brains running on the operator's own hardware, fully offline-capable, is what passing that test looks like in practice.

Treat the weight layer as critical national infrastructure and a great many confused debates resolve themselves at once. You would never let a foreign company hold the only keys to your grid, refuse to show you the wiring and reserve the right to change it overnight from another jurisdiction. We have somehow agreed to precisely that arrangement for the intelligence layer, and we agreed to it because the dependency was sold as convenience rather than recognised as capture.

2. Capture Without Conquest

The most effective forms of control in this century do not arrive with an army. They arrive with a contract, a free tier and an integration so smooth that, eighteen months later, unwinding it would cost more political capital than anyone has to spend. Capture of the model layer is bloodless, gradual and almost entirely voluntary, which is exactly what makes it dangerous. Nobody has to invade a country whose every consequential decision already passes through a model it cannot inspect and cannot switch off.

Consider how the dependency actually deepens. A department adopts a hosted model for one narrow task. It works, so usage spreads. Workflows are rebuilt around its quirks, staff are trained on its outputs, downstream systems begin to assume its presence. The provider updates the model and behaviour shifts, but the department has no copy of the old weights and no way to reproduce the result that a tribunal is now questioning. Each step is individually rational. The aggregate is a state organ that can no longer function without a foreign system it does not control and cannot audit.

This is leverage of a particularly modern kind. A provider, or the government with jurisdiction over that provider, gains the ability to degrade, alter or withdraw a capability that a foreign state now depends on for governance itself. It need never be used to be decisive. The mere fact that it could be used reshapes the dependent country's room for manoeuvre, in trade talks, in security disagreements, in any moment where independence was supposed to mean something. That is power, and it was acquired without a shot.

A dependency you cannot exit on your own authority is not a supplier relationship. It is a leash.

The defence is not autarky and it is not paranoia. It is retained capability. A nation must keep the ability to run its own intelligence on its own hardware, to reproduce last year's result on demand, and to walk away from any single provider without its institutions seizing up. Build that capability and you can use the global market freely, because you are choosing it rather than being held by it. Fail to build it and every convenient integration is one more strand in a rope you did not realise was being woven around you.



The Mickai pantheon.

3. The Audit Gap

Ask a hard question of most deployed AI systems and you reach the same wall. What exactly did the model do, on what version, on what evidence, and can you prove it months later to a court, a committee or an auditor who is openly hostile. In the overwhelming majority of cases the honest answer is no. There is a log of the request and perhaps the response, but no tamper-evident record binding the decision to the precise model, inputs and reasoning that produced it. That is the audit gap, and it is where accountability quietly dies.

For a private app the gap is a nuisance. For a state it is a constitutional fault line. Public power must be accountable, and accountability means being able to reconstruct, defend and if necessary disown a decision after the fact. If a citizen is denied a benefit, flagged at a border or down-ranked in a queue by a model, the state owes a record robust enough to survive challenge. A screenshot and a vendor's assurance is not such a record. It is the absence of one dressed up as compliance.

This is the problem the Open Audit Record was built to close. Every consequential action the SIOS takes is sealed into a record protected with post-quantum cryptography under FIPS 204 ML-DSA-65, so the proof of what happened cannot be quietly rewritten and does not rot the day a quantum computer can break today's signatures. The point is not the acronym. The point is that the record outlives the convenience, the staff turnover and the cryptographic era in which it was made. Accountability that expires is not accountability.

Close the audit gap and the entire conversation about trusting AI in government changes shape. The question stops being whether you trust the model, an unanswerable and slightly childish framing, and becomes whether you can verify what it did. Verification is a far stronger foundation than trust, because it does not depend on anyone's good character and it does not evaporate when relationships sour. A nation that can prove what its machines did, every time, has the one thing that makes

delegating real power to them defensible at all.

PART II · ALLIED AI VERSUS SOVEREIGN AI

Sharing a flag with your supplier is not the same as controlling your own intelligence.

4. The Comfort of the Allied Cloud

The reassurance offered to nervous governments is almost always the same. The provider is an ally, the data centre sits in a friendly jurisdiction, the contract has strong words about residency and law enforcement. This is the comfort of the allied cloud, and it is genuine as far as it goes. The trouble is that it is offered as a substitute for sovereignty when it is no such thing. Allied is a statement about today's politics. Sovereign is a statement about your capability regardless of today's politics.

Alliances are real and they matter, but they are weather rather than climate. They shift with elections, with crises, with the personalities in two capitals. An arrangement that is comfortable under one administration can become a quiet instrument of pressure under the next, and the dependent nation discovers that the very integration it was praised for has become the lever held against it. Sovereignty is precisely the property that does not depend on the relationship staying warm. It is what you keep when the alliance is strained, which is the only moment it was ever for.

An ally can change its mind. A capability you own does not require anyone's permission to keep working.

There is a subtler cost too. When a nation routes its core intelligence through an allied provider, it routes its institutional learning there as well. The patterns, the edge cases, the hard-won corrections all accrue to a system the nation does not own and cannot extract. Over years the dependent country becomes less capable of doing the thing itself, not more, because the muscle has been outsourced and has wasted. Comfort today is purchased with capability tomorrow, and capability does not come back quickly once it is gone.

None of this is an argument against allies or against using the global market. It is an argument against confusing the two layers. Use allied infrastructure for what it is good for, by all means, but keep a sovereign core that you control absolutely, so that the allied relationship is a choice you make from strength rather than a dependency you cannot survive without. The allied cloud is a fine tool and a terrible foundation.



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5. What Sovereign Actually Requires

Sovereignty over intelligence is not a slogan to be printed in a strategy document. It is a checklist a system either passes or fails, and most fail. A sovereign system must run on hardware the nation controls, without a mandatory call home to anyone. It must be inspectable down to the weights, so that what it knows and how it reasons can be examined rather than taken on faith. It must be retrainable on the nation's own corpus, so that the intelligence reflects the nation's law, language and priorities rather than someone else's.

It must keep working with the network cable pulled, because a capability that vanishes the moment connectivity is denied was never sovereign, it was merely remote with extra steps. It must produce a tamper-evident record of what it did, so that accountability survives the deployment. And it must be switchable, retrainable and replaceable on the operator's own authority, with no kill switch held in another jurisdiction. Meet every one of those conditions and you have sovereignty. Miss any one of them and you have a dependency with good marketing.

The offline test

I keep returning to one brutally simple test because it cuts through every brochure. Pull the cable. Disconnect the system entirely from the outside world and see what it can still do. A sovereign intelligence keeps running, keeps reasoning, keeps producing records, because everything it needs lives on hardware the operator holds. This is why the SIOS runs fifty specialised brains locally, fully offline-capable, rather than as a thin client onto somebody else's datacentre. The offline test is not a feature. It is the definition, and almost nothing on the market today passes it.

People assume this standard is impossibly expensive or technically out of reach, and three years ago they had a point. They do not have one now. The model layer has matured, capable systems run on hardware a serious institution can own, and the engineering to retrain, seal and serve them on

premises is built and proven. The barrier to sovereignty is no longer capability. It is the willingness to insist on it, and the clarity to recognise that the alternative is renting your own statecraft.

6. The Procurement Trap

Most sovereignty is lost not in a grand strategic decision but in a procurement document nobody read closely. The trap is laid in ordinary language. A tender asks for the cheapest compliant solution to a narrow problem, the hosted option wins on price and speed, and a dependency that will define the institution for a decade is created by a process designed to buy staplers. The strategic question, who will control this capability in five years, is never asked because the form does not have a box for it.

The economics are deliberately seductive in the early years. Hosted intelligence is cheap to start, because the provider is buying the market and pricing for lock-in rather than profit. The true cost arrives later, as switching becomes unthinkable, as price rises meet a customer who has no alternative, and as the capability to do it yourself has atrophied beyond easy recovery. By the time the bill reflects the leverage, the leverage is total. This is not an accident of the market. It is the business model, executed exactly as designed.

The cheapest option on the form is rarely the cheapest option over the life of the dependency.

The fix is to procure for sovereignty as an explicit, scored, non-negotiable requirement rather than a hope. Demand the right to inspect the weights. Demand offline operation and prove it in the evaluation by pulling the cable in the room. Demand exit rights with the data and the model in a usable form, not a hostage you must beg back. Demand a tamper-evident audit trail by default. Score these properties as heavily as price, because they are price, just deferred and disguised. A procurement process that cannot see the model layer will give it away every time, cheerfully, with a signature.

This is the most actionable lever a government has, and it requires no new law and no new money, only a change in what the buyer insists upon. Every tender that bakes in sovereignty closes a door that would otherwise have been left open. Every tender that ignores it props that door open for a decade. The procurement officer, of all people, turns out to be a frontline defender of national independence, and almost nobody has told them so.



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PART III · THE TREASURY THAT OWNS THE INTELLIGENCE

When the system that reasons also moves the money, ownership of the model is ownership of the state.

7. Intelligence Meets the Money

There is a threshold a nation crosses, often without noticing, when the intelligence that recommends a decision becomes the intelligence that executes it. For a while the model only advises, and a human signs. Then, under the relentless pressure of volume and speed, the human becomes a rubber stamp, and then the stamp is automated away entirely for the routine cases, which is to say for almost all of them. At that point the model is no longer advising the treasury. The model is the treasury, or near enough that the distinction stops protecting anyone.

This is where the abstract argument about the model layer becomes concrete and urgent. When intelligence and execution fuse, whoever controls the model controls the flow of money, the allocation of resources and the enforcement of rules, directly, at machine speed, at scale. A subtle change to a model that scores fraud, prioritises spending or clears payments is a change to the behaviour of the state itself, applied to millions of cases before a single human notices anything is different. The model layer is no longer a tool the treasury uses. It is the treasury's hand.

Once the intelligence spends the money, owning the intelligence is owning the spending.

Now revisit foreign control in this light and the stakes resolve into something stark. A nation that runs its treasury logic on a model it cannot inspect has handed a foreign party a window into, and potentially a hand on, the levers of its own economy. The provider need not be malicious for this to be intolerable. The mere existence of that access and that leverage is incompatible with the basic claim of a sovereign state, that it, and it alone, controls its own purse. There is no version of fiscal sovereignty that survives outsourcing the brain that moves the money.

This is the precise reason the SIOS treats financial and high-consequence reasoning as core sovereign functions to be run on the operator's own hardware, sealed and inspectable, never as a remote service. When the intelligence can spend, advise on, or enforce, the only acceptable owner is the nation itself. Everything else is a polite arrangement to be governed by someone else.

8. The Settlement Layer Must Be Sovereign Too

It is not enough to own the intelligence that decides if the rail on which value actually moves is controlled by someone else. A sovereign brain settling onto a payment network that a foreign party can freeze, reorder or surveil has simply relocated the dependency one layer down, from the model to the money rail. True sovereignty over a treasury function requires sovereignty over both the reasoning and the settlement, because an adversary who controls either one controls the outcome. Half a sovereign stack is not half-sovereign. It is captured at the half you forgot.

This is why we built Pantheon, our sovereign Layer 1 anchored to Bitcoin. The reasoning that decides belongs to the nation on its own hardware, and the settlement that finalises belongs on a chain the nation can run and verify rather than a network whose operators answer to another government. Anchoring to Bitcoin gives the settlement layer a base of neutrality and durability that no single state-issued or company-controlled rail can match, precisely because no one party can quietly rewrite it. Sovereignty likes a foundation that does not take instructions.

The objection is predictable, that this is over-engineering for a risk that will never materialise. I have heard the same complacency about every utility that was later weaponised. Payment networks have been used as instruments of foreign policy within living memory, with countries cut off, reserves frozen and rails turned into pressure overnight. A nation that builds its automated treasury on a rail it does not control is one geopolitical quarrel away from discovering that its money was never quite its own. The cost of sovereignty over settlement looks indulgent right up to the day it looks like the only thing that saved you.

Put the two layers together, sovereign reasoning and sovereign settlement, and you have something a state can genuinely call its own, an intelligence that decides and a rail that finalises, both inspectable, both anchored, both beyond the reach of a foreign off switch. That is the architecture of a treasury that owns its own intelligence rather than borrowing it. Anything less leaves a door open, and in matters of money, every open door is eventually walked through.



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9. Accountability at Machine Speed

The deepest fear about automating the treasury is not that the machine will be wrong occasionally. Humans are wrong occasionally too. The fear is that it will be wrong invisibly, at scale, irreversibly, executing a flawed or tampered rule across millions of cases before anyone can intervene, with no record robust enough to reconstruct what happened or to unwind it. Speed without accountability is not efficiency. It is the industrialisation of error, and in a treasury that error has a citizen attached to every instance of it.

This is why the audit layer is not a nice addition to an automated treasury, it is the precondition that makes one defensible at all. Every consequential action, every scoring, every allocation, every enforcement, must be sealed into a tamper-evident record that captures the model version, the inputs, the reasoning and the outcome. Under the SIOS that sealing is post-quantum, under FIPS 204 ML-DSA-65, so the proof is built to outlast both the staff who ran the system and the cryptographic era in which they ran it. A treasury that cannot show its working has no business moving money on its own.

Automate the decision if you must, but never automate away the proof of what the decision was.

With that record in place, machine speed stops being a threat to accountability and becomes a tool for it. Every action is reconstructable, so errors can be found, bounded and reversed rather than discovered as a scandal years later. Patterns of unfairness become visible because the evidence exists to make them visible. Challenge becomes possible because there is something concrete to challenge. The audit record is what turns a fast, opaque, unaccountable automaton into a fast, transparent, accountable instrument of the state, and the difference between those two is the difference between a tool and a liability.

This is the answer to anyone who says automating governance is inherently undemocratic. It is not the automation that threatens democracy. It is automation without proof. Build the proof in at the foundation, make it post-quantum so it does not decay, make it cover every consequential action, and you can have the speed of the machine and the accountability of the institution at the same time. Refuse to build it, and you get the speed and lose the institution, which is the trade almost everyone is currently making by default.

PART IV · INDEPENDENCE EARNED AT EXECUTION

Digital independence is not declared in a strategy paper. It is proved, every time the machine acts.

10. Sovereignty Is a Verb

Most national strategies treat sovereignty as a noun, a possession, a status to be declared in a white paper and pointed to thereafter. This is the central mistake, and it is comfortable precisely because declaring is easy and proving is hard. Sovereignty over intelligence is not a status you hold. It is a capability you exercise, continuously, and it exists only at the moment of execution. It is a verb pretending to be a noun, and the pretence costs nations dearly because it lets them believe they have something they have merely announced.

A strategy document can claim digital independence in confident prose, but the claim is tested somewhere far less glamorous, in the running system, when a decision is actually made. Can you, right now, on your own authority, inspect the model that just acted, reproduce its result, retrain it, run it offline and prove what it did. If yes, you are sovereign in that moment. If no, you are dependent in that moment, and no amount of strategic language changes the fact. Sovereignty is a property of the live system, not of the paperwork describing it.

You do not have digital independence because you declared it. You have it for exactly as long as you can prove it.

This reframing is liberating once it lands. It means sovereignty is not a vast unattainable condition to be achieved all at once, but a concrete property to be engineered into systems one execution at a time. Every deployment either passes the test or fails it, and you can tell which, today, by looking. Independence stops being an aspiration and becomes an engineering requirement with a pass-and-fail line, which is the only form of it that has ever survived contact with reality.

It also means sovereignty can be lost without anyone deciding to lose it, simply by deploying systems that quietly fail the test while the strategy paper still says otherwise. The gap between the declared status and the executed reality is where independence leaks away unnoticed. The discipline this book argues for is the refusal to let that gap open, by insisting that every consequential system prove its sovereignty at the point of action, not in a document filed and forgotten.



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11. The Architecture of Independence

If sovereignty is proved at execution, then the architecture must be built so that it can be proved at execution, deliberately, rather than hoped for. This is the engineering discipline behind the SIOS, and it rests on a few non-negotiable commitments. The intelligence runs on the operator's own hardware, fifty specialised brains, fully offline-capable, so that the offline test is passed by construction rather than by promise. There is no mandatory call home, no remote dependency hiding in the critical path waiting to fail at the worst moment.

Every consequential action is sealed into a post-quantum Open Audit Record under FIPS 204 ML-DSA-65, so that accountability is a property of the system rather than an afterthought bolted on for an inquiry. The settlement layer, where the intelligence touches money, runs on Pantheon, our sovereign Bitcoin-anchored Layer 1, so that the rail is as sovereign as the reasoning. And the whole stack is inspectable and retrainable on the operator's authority, so that the nation can examine, correct and replace its own intelligence without anyone's permission. Each commitment maps directly to one of the tests, by design, because that is the only way to be sure the tests pass.

Built to be owned, not rented

The deeper principle is that the architecture is built to be owned. Every decision in the design favours the operator's control over the provider's convenience, which is the exact inversion of the prevailing model and the reason it took 101 filed UK patent applications and a great deal of stubbornness to get here. A system built to be rented optimises for lock-in. A system built to be owned optimises for the operator's ability to walk away, and paradoxically that is what makes it a system worth staying with. Ownership is not a feature you add. It is a decision you make at the foundation and defend in every choice after.

I am not claiming the SIOS is the only possible architecture of independence. I am claiming that any architecture of independence must satisfy the same conditions, own the hardware, inspect the weights, run offline, seal the actions, control the settlement, retain the right to walk away. Build a system that meets those conditions by whatever route and you have built sovereignty. Build one that does not and you have built a dependency, however impressive its marketing. The conditions are the thing. The brand is not.

12. The Choice In Front of Every Nation

Every nation now faces a choice it cannot avoid by ignoring, because ignoring it is itself the choice, and it is the losing one. The intelligence layer is being built into the machinery of the state whether or not anyone has decided it should be. The only real decision is whether that intelligence will be owned or rented, sovereign or captured, provable or opaque. A country that does not choose deliberately will find the choice made for it by procurement defaults, vendor incentives and the path of least resistance, and that path leads reliably to dependency.

The good news, and I want to end on it because it is true, is that the sovereign path is open and affordable next to the cost of the alternative. The model layer has matured, the hardware is ownable, the engineering to run, seal, settle and retrain intelligence on home soil is built and proven. The barrier was never really capability. It was clarity and will, the clarity to see the weight layer as the national infrastructure it is, and the will to insist on owning it rather than renting it from people who answer to someone else.

The model layer is being built into your state right now. The only question is whose state it makes it.

So I will leave the decision-maker with the test, because the test is the whole argument compressed into something you can act on tomorrow. Take any AI system your institution depends on and pull the cable. If it keeps working, if you can inspect what it did, reproduce its result, retrain it and prove its actions, you are sovereign. If it goes dark or goes silent or cannot account for itself, you are dependent, and you should treat that dependency with the seriousness you would treat a foreign hand on your grid, because that is precisely what it is.

Digital independence is earned at execution, every time the machine acts, or it does not exist. No strategy paper grants it, no alliance guarantees it, no data centre on home soil confers it. It is built, deliberately, into systems designed to be owned, and it is proved, continuously, in the running of them. That is the standard I hold the SIOS to, the standard I would urge every nation to hold its intelligence layer to, and the standard by which, in the end, sovereignty in this century will be kept or quietly lost. The choice is yours. Make it on purpose.



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APPENDIX · ABOUT THE AUTHOR

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Founder and chief executive of Mickai LTD (Companies House 17166618, registered office 20 Wenlock Road, London, N1 7GU) and named inventor on the Mickai SIOS patent corpus: 101 filed UK patent applications, around 2,234 claims. Trade mark Mickai registered at UK00004373277.

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