Stateless and Affordable

Preserving possibility. Making new capabilities affordable.

The opportunity is not that every asset becomes more expensive. It is that more people can achieve useful results without first owning all the conditions of production.

https://hsimc.tech/new-blue-ocean/stateless-and-affordable/en/ · SA-C0-001 · 2026-10-25

The protocol can be stateless. Reality deserves memory. Cooperation can be bounded. Capability should become more widely attainable.

01 · A better question than asset appreciation

AI is advancing. What becomes possible for me? This question shifts attention from the price of an asset to the capabilities a person can actually obtain. Our ambition is not to make everyone buy more equipment, nor to keep the same gatekeepers collecting ever-higher access charges. It is to make useful work possible for people who could not previously afford its conditions.

Our exploration required several corrections. An address resembling an email address can be an entry to a continuing work relationship, not merely an inbox. Phone-shaped hardware can become a dedicated node, not a request to open someone's private digital life. Stateless interaction need not mean forgetting. And a reconstruction of asset value need not mean that all assets rise in price.

These corrections converge on a different economic direction: preserve possibilities before their uses are known; find cooperation when a real need emerges; make the resulting capability affordable while sustaining the people who contribute. This is a research thesis to test, not an announcement that a worldwide market already operates.

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02 · Stateless calls, enduring memory

In MCP 2026-07-28, requests are self-contained; cross-request state is explicitly referenced, not inferred from a connection. The revision removes protocol-level sessions and the initialization handshake. [S1, S2]

Our inference is not that nothing should be saved. It is almost the opposite: much that has no recognised use today deserves a chance to be understood later. A failed experiment, an abandoned design, a repair history, a material sample or a craft method may matter when a different need or interpretation appears.

We can preserve sources, context and work history without granting permanent permission or tying them to one client, provider or execution node. A connection may end while knowledge remains. A permission may expire while responsibilities for an existing result continue. The opportunity lies in separating these lifetimes, not erasing them.

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03 · Preserve potential without taking possession

“Everything is worth preserving” is an attitude towards potential, not an instruction to collect everyone's data or retain every object forever. Preservation requires purpose, consent, stewardship, cost and appropriate deletion or retirement. It may mean keeping an original safely, or just its reference, provenance, custodian and known limitations.

Something may be preserved without being public, discoverable without its full contents being copied, and discussed without being licensed for training, execution or commercial reuse. Cultural and non-commercial value does not need a future customer to justify its existence.

UNESCO's guidance allows sensitive knowledge to remain with its custodians and recognises communities' control over inventorying and access. Its ethical principles place communities and informed consent at the centre. [S4, S5]

Two streams can therefore coexist: people preserve what they choose to preserve, and people express changing needs. Preservation need not wait for a buyer. Action still starts from a real need. A potential match is a hypothesis, not a booking, a supply commitment or permission to use.

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04 · Use a capability without buying its whole world

A small team may need one verified measurement, not a laboratory. A designer may need an agreed manufacturing step, not ownership of a factory. A learner may need guidance on a particular method, not unrestricted access to a community's knowledge. The useful unit can be a bounded contribution rather than an entire asset, account or organisation.

Ownership does not disappear. Someone still maintains equipment, holds rights, provides labour and pays for energy, materials and safety. The proposed value is to reduce unnecessary duplication, integration and commitment costs—not to hide them or make contributors subsidise strangers.

This goes beyond trading the same asset to a new buyer. New value appears when an otherwise impossible result becomes achievable, or when independently held capabilities produce something none could deliver alone. Trade may participate in that process; resale is not its organising purpose.

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05 · Three bounded units: call, permission, charge

One call means one clearly described business action or contribution. It may involve several network requests, checks or attempts. A stable business invocation identity must connect them; counting HTTP requests is not a measure of delivered value.

One permission means authority for the specified purpose, inputs, resources, time and budget. It is not permanent control. A person can approve a bounded action once while the system verifies each relevant request. The HTTP authorization framework does not itself turn an access token into a single-use commercial licence. [S3]

One charge means the agreed, reconcilable treatment of that business action—not another debit for every retry or click. Terms may include disclosed line items, adjustments, zero-price use, sponsorship or aggregated settlement. Legitimate consumption and acceptance of the final result must be distinguished.

Together these units can make a large, intimidating relationship small enough to negotiate. They do not make prohibited uses permissible, erase cultural conditions or require cooperation to be short-lived. The scope of an action can be temporary while trust and useful relationships grow.

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06 · What is stateless must still be accountable

MCP's change log requires a new request ID when a broken response stream is reissued. [S2] We therefore propose separate identities for the continuing Work, the business invocation, individual attempts, the grant, charges and acceptance evidence. A transport identifier must not silently become the commercial identity.

Limited-use permissions need a trustworthy consumption record. Otherwise two nodes could both treat the same grant as unused. Retrying a bill and retrying a physical action are different problems. If printing or machining may already have happened but its receipt was lost, the appropriate state is “outcome awaiting verification,” not “failed, execute again.”

This is not a reason to abandon the opportunity. It identifies the confidence needed for providers to open capabilities and users to rely on them. The protocols, ledgers and controls should serve a useful economic relationship, not turn each relationship into a new technical obstacle.

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07 · Dedicated nodes, not private lives

The “ten-billion activation” idea is a long-term opportunity narrative, not a count of certified or connected devices. Here, “phone” describes a possible hardware source. A dedicated node can be physically separated from the device that carries someone's personal identity, photos, messages and everyday accounts.

A node should hold only what its work requires. Physical separation is one way to limit exposure; it is not an air-gap claim or an automatic security guarantee. Independent credentials, restricted tools and networks, maintenance and revocation remain necessary. NIST rejects implicit trust based solely on location or ownership. [S6]

In the proposed HSIMC architecture, X@hsimc.tech is a stable work entry; a Runtime holds governance and work references; nodes execute allowed actions. A VM, IP address or device is not the person's identity. Participants may use their own domains, MCP endpoints and APIs under verified bindings. These are design directions, not claims that registration already provisions a cluster.

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08 · Affordable means capability, not perpetual asset inflation

The intended outcome is that more people can do worthwhile things. The price of an old fixture need not increase for its usefulness to expand. Lower unit costs, new participation and sustainable contributor returns are goals to reconcile—not automatic consequences of more calls.

Affordability includes money, learning, communication, integration, risk, waiting, rework and exit costs. A cheap offer that demands a long subscription, broad data access or unmanageable failure risk may not be affordable at all. Nor should low prices be manufactured through unpaid expertise, neglected maintenance or displaced environmental costs.

Statelessness does not abolish monopoly. Our design should resist replacing an old bottleneck with a new compulsory HSIMC gateway. OECD describes portability and interoperability as possible ways to reduce switching barriers and support competition, while noting implementation challenges. [S7]

The direction is more agency: export permitted records, retain original identifiers, choose qualified alternatives and leave without unnecessary loss of history. Legitimate ownership, expertise, cultural autonomy and returns on innovation remain valuable. HSIMC should earn by helping work succeed, not by making departure harder.

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09 · An old record, a new capability

Consider a proposed study, not an existing service. A rejected packaging design, a failed trial and a reusable fixture remain with their respective custodians. Nobody first needs to value them, list them for sale or sign an exclusive partnership.

Later, a small business needs a modest quantity of packaging that is easier to identify and open, with less unnecessary material. Approved descriptions reveal a possible combination. Rights holders and contributors agree which records, tools and expertise may be used, what will be delivered, what it costs and who accepts the result.

A dedicated node processes only the selected information. The result might be a more usable package and a method whose limits are recorded. The fixture has not become more expensive. The user has gained a previously unaffordable capability, contributors receive agreed returns, and permitted learning can help the next project.

10 · Measure new possibilities against real conditions

The practical centre of gravity moves from “can systems connect?” to “what cooperation is worthwhile, acceptable and sustainable?” Economic terms, cultural judgement and applicable rules become central. Engineering is still necessary to carry out those decisions reliably; it cannot decide them on everyone's behalf.

Research should compare like-for-like, acceptable results: who could not act before but can now; whether total entry costs fell; whether contributors recovered real costs and earned sustainable returns; whether switching remained possible; and which concrete need a new result satisfied. Registration, stored bytes and call volume are not substitutes for these questions.

The first proposed validation should follow a whole journey: preserve an unpriced source, discover a real need, negotiate a bounded contribution, execute and account for it, then preserve permitted evidence. Concurrent claims, lost receipts, revocation, budget overruns and uncertain outcomes belong inside that test. Economic growth and wider inclusion are hypotheses to examine through such work, not guarantees printed by a protocol.

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11 · Preserve possibility; widen participation

Our starting point remains They Need / They Do Not Have. Reorganising I Can / I Have is a method, not a requirement that everyone commercialise what they know. A retained reality may remain cultural, educational or exploratory; a useful outcome may be paid, sponsored, reciprocal or public-service work.

The new blue ocean is not an endless increase in the price of the same assets. It is a wider field of people able to create, repair, learn and solve problems. As foundational capabilities become more affordable, innovation can move towards harder, more specific and more consequential needs.

Bring a need, a record whose value is not yet understood, a bounded capability, or a reason this thesis might be wrong. Help define a small, verifiable next step. We aim to preserve humanity's unused possibilities—not to own them—and to help more people create the next reality.

Sources and reading scope

Protocol facts, HSIMC inferences and the illustrative scenario are distinguished in the text. References support the stated boundaries, not endorsement of HSIMC or proof of economic outcomes.

S1 · Model Context Protocol · Base Protocol / Statelessness

https://modelcontextprotocol.io/specification/2026-07-28/basic
Model Context Protocol · Sources checked 2026-10-25

S2 · Model Context Protocol · Key Changes, 2026-07-28

https://modelcontextprotocol.io/specification/2026-07-28/changelog
Model Context Protocol · Sources checked 2026-10-25

S3 · Model Context Protocol · Authorization, 2026-07-28

https://modelcontextprotocol.io/specification/2026-07-28/basic/authorization
Model Context Protocol · Sources checked 2026-10-25

S4 · Involvement of tradition bearers and practitioners

https://ich.unesco.org/en/tradition-bearers-and-practitioners-00259
UNESCO · Sources checked 2026-10-25

S5 · Ethics and Intangible Cultural Heritage

https://ich.unesco.org/en/ethics-and-ich-00866
UNESCO · Sources checked 2026-10-25

S6 · SP 800-207 · Zero Trust Architecture

https://csrc.nist.gov/pubs/sp/800/207/final
NIST · Sources checked 2026-10-25

S7 · Data Portability, Interoperability and Competition

https://www.oecd.org/en/events/2021/06/data-portability-interoperability-and-competition.html
OECD · Sources checked 2026-10-25

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Bring a need, a contribution or a different view

What need could this help? What might be preserved? Who can authorise a bounded contribution, and what would make the outcome affordable?

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