

Nebula City-Scale Integrated Validation Plan

State authorization, city-level implementation, and full-system validation with a smaller scope but no reduction in dimensions

The whole is sufficient to safeguard continued existence without engulfing the individual; resources can flow efficiently without turning people into instruments of efficiency; life can be happy, interesting, and enjoyable, while new meaning continually emerges and is carried forward.

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1 Validation purpose and basic principles

Nebula cannot be validated through a single app, a community activity, or a standalone platform. In a city or relatively complete region with a reasonably comprehensive structure of population, industry, resources, public services, governance, culture, and risks, it must test whether the whole and the individual, resources and happiness, efficiency and rights, and intelligent autonomy and human decision-making can all coexist.

This plan connects with the direction of a National Integrated Experimental Zone for Civilization Leap in the AGI Era. Its principles are state authorization, city-level implementation, reduced scope without reduced dimensions, dual-track operation, stage gates, rollback, and public review. Its aim is to test the most critical relationships in theoretical reasoning against actual reality, rather than rapidly replicate a perfect model.

- Do not change the state's constitutional order or statutory governance responsibilities.
- Do not lower standards for basic rights, labor, privacy, healthcare, or safety in the name of experimentation.
- Do not require all residents to connect at once; participation is voluntary and matter-specific.
- Basic services retain original systems and human safeguards.
- Every new permission has a time limit, appeals, independent auditing, and circuit breakers.
- Success and failure both enter public research; do not turn the city into a publicity venue.

2 Why complete city-scale validation is necessary

Only a city-scale setting simultaneously contains basic survival resources, industry and employment, public finance, healthcare and education, transport and energy, housing, families and communities, diverse cultures, vulnerable subjects, sudden risks, and long-term governance. Smaller pilots can validate functions, but cannot determine whether resource optimization shifts costs onto other groups, whether expanded happiness depends on external supply, or whether AGI autonomy preserves responsibility in high-consequence settings.

What smaller-scale pilots can validate	What requires city-scale validation
Identity, authorization, terminals, and single-project coordination	Public-service continuity, cross-department responsibility, and statutory governance
Limited resource sharing	Systemic effects of resource pools on markets, public finance, industry, and vulnerable groups
Matching individual wishes	Actual relationships between the Dream Garden and culture, transport, accommodation, and public space
Intelligent scheduling within a domain	Cross-domain coupling of energy, transport, healthcare, supply chains, and emergencies
User experience	Long-term tensions between whole and individual, and between average efficiency and minority rights

3 Conditions for selecting a pilot city

Condition	Requirement
Governance and authorization	Formal national or provincial authorization, cross-department coordination, and conditions for independent auditing

Condition	Requirement
Scale and completeness	Representative population, industry, urban-rural interfaces, public services, and culture
Digital and industrial foundations	Existing smart-city, industrial, agricultural, energy, healthcare, and data foundations
Controllable risks	Experiments can be separated by area and domain; basic services can be safeguarded through dual tracks
Public finance and resources	Capacity for long-term investment, compensation reserves, and noncommercial public projects
Public participation	Established communities, social organizations, media, and appeal channels
Comparability	Historical baselines, regional controls, or staggered-implementation controls can be established
Exit capability	No dependence on a single supplier; data and systems can be migrated and restored

4 Validation objectives and core hypotheses

Objective	Core hypothesis
Collective continued existence and resilience	Cross-system coordination can identify shortages, faults, and risks earlier without creating new single-point vulnerabilities
Effective resource use	Resource pools that protect property rights and exit can improve utilization, reduce life-cycle costs, and increase supply
Happiness in life	Basic guarantees, time freed up, and access to cultural and dream resources improve without turning happiness into scoring and recommendation-based control
Subject integrity	Private domains, authorization, withdrawal, appeals, and the right not to be optimized are enforceable in real public systems
Human-machine governance	AGI can undertake more routine management while human rights-bearing subjects can still understand, veto, and demand accountability for high-consequence decisions
Emergence and continuity of meaning	Real projects, relationships, care, failures, and repair are carried forward without contribution value absorbing personhood

5 Organizational structure and rights protection

A preliminary structure of one office, four committees, and three platforms is proposed. Specific names must conform to existing national and local legal systems.

Organization	Responsibilities
Integrated Experimental Zone Office	Coordinate plans, budgets, departmental cooperation, stage gates, and external reporting
Human Rights and Ethics Committee	Review subjects' rights, protection of children, older people, and people with disabilities, data, and irreversible matters

Organization	Responsibilities
Resources and Industry Committee	Resource pools, industry participation, property rights, returns, supply chains, and public finance
Professional and Safety Committee	Technology, engineering, healthcare, AGI autonomy, safety, and stress tests
Human Experience, Happiness, and Meaning Committee	Happiness conditions, cultural diversity, the Dream Garden, and early warnings of alienation of meaning
Nebula Coordination Platform	Identity, authorization, catalogs, intelligent ERP, tasks, and logs
Public Participation and Appeals Platform	Information, opinions, objections, appeals, reporting of wrongdoing, and publication of results
Independent Audit and Validation Platform	Independent assessment of data, algorithms, public finance, rights, accidents, and real-world effects

5.1 Participant rights

- Clearly know what they participate in, what they open, the duration, and consequences of exit.
- Refusal of nonessential experiments does not affect basic services.
- Be able to view, correct, and delete nonessential personal data.
- Obtain explanations and human review of major algorithmic decisions.
- Receive prompt remedies, compensation, and long-term care for harm caused by experiments.
- Vulnerable subjects and minority views have independent representation and protection.

6 Six major systems and initial project clusters

System	Initial project clusters
Basic survival guarantees	Risk views for food and medical supplies, basic-service coordination, and access to care for vulnerable households
Resource Pool and civilizational-scale resource coordination layer	Time-sharing of public spaces, idle equipment, enterprise capacity, maintenance, and inventory coordination
Happiness Ladder and Dream Garden	Maps of time and cultural resources, low-burden experiences, minimum experiments for personal dreams, and cross-cultural projects
Spark and subject services	Unified authorization, family care, remote presence, and highly protected access for children and older people
Human-machine decisions and city operations	L0/L1 intelligent scheduling, public deliberation on major matters, and emergency-phase drills
Meaning and civilizational memory	Facts of contributions to public projects, accident and repair archives, local culture, and continuity of long-term responsibilities

6.1 Excluded from the initial scope

- Warfare, weapons, and high-risk autonomous physical action;
- Citywide unified social-credit or personhood scoring;
- Institutions for independent digital life after a subject's death;
- Irreversible genetic, reproductive, and human-enhancement experiments;
- Removal of existing legal remedies and judicial oversight in the name of a city pilot;

- A3/A4 autonomy without reliable human takeover.

7 Baselines, controls, and evidence

Validation must establish baselines before projects start, rather than merely compare subjective impressions afterward. Evidence includes precise engineering data, comparative institutional indicators, subjects' own accounts, and long-term observations of life.

Evidence layer	Main content
Engineering and resources	Service interruptions, inventory, utilization, maintenance, energy use, costs, response times, and recovery times
Rights and governance	Authorization, withdrawal, appeals, misuse, auditing, responsibility, and compensation
Happiness and life	Service access, autonomy over time, cultural spaces, care pressures, choices, and subjective narratives
Industry and public finance	Connection costs, savings, enterprise returns, public investment, externalities, and long-term burdens
Safety and resilience	Stress tests, disconnection, model errors, disaster drills, degradation, and rollback
Meaning and relationships	Continuity of projects, care, contributions, failures, repair, exit, and civilizational memory

Controls may include separate areas, phased implementation, similar cities, historical trends, and randomized opportunities within projects. Experimental purity must never justify depriving people of basic services or creating unnecessary risks.

8 Phased implementation roadmap

Stage	Indicative timing	Main tasks
0. Preparation and baseline	0-12 months	Authorization, governance, system maps, public participation, baselines, contracts, auditing, and compensation preparation
1. Closed and low-risk trial operation	12-36 months	Limited resource pools, public services, Dream Garden projects, and A0/A1 intelligent coordination
2. Citywide multisystem operation	36-84 months	Cross-domain resources, industry, happiness, and city operations, with local A2 autonomy
3. Review and conditional wider adoption	After 84 months	Assess long-term effects, failures, repair, and replicability; decide whether to expand, maintain, contract, or terminate

Timing is only a project-management reference and cannot replace capability and safety gates. Any stage that fails to meet conditions is extended, downgraded, or rolled back.

9 Stage gates and AGI autonomy

Gate	Minimum conditions
Preparation to trial operation	Rights, responsibilities, data, appeals, compensation, rollback to original systems, and baselines are in place
Advice to controlled execution	Advice is reliable over multiple rounds; tasks are low-risk and reversible; logs and human takeover are available
Single-domain to cross-domain operation	Semantic conflicts, safety, responsibility, and affected rights have undergone independent validation
Dual tracks to migration	Service continuity, integrated costs, public trust, and rights outcomes are no worse than under the original system
A2 to A3/A4	Long-term reliability, independent auditing, disconnected operation, circuit breakers, and legal and social authorization satisfy requirements

10 Resource, fiscal, and return arrangements

- Public funds prioritize basic interfaces, public services, rights protection, auditing, and noncommercial projects.
- Enterprise investment covers industry connections, equipment, products, and modules that provide direct benefits.
- Resource-pool returns are treated separately according to property rights, maintenance, risk, use, and public gains.
- Establish reserves for accident compensation, system rollback, and long-term maintenance.
- Return some savings and new income to basic guarantees, happiness opportunities, and open infrastructure.
- Disclose all subsidies, procurement, supplier dependence, and hidden costs.

11 Public participation, culture, and happiness validation

The public are not passive users. They should participate in defining problems, forming rules, providing experience feedback, making appeals, and reviewing stages. Different cultures, ages, occupations, abilities, and ways of life must have real seats at the table, rather than be represented solely by average opinion-poll results.

- Establish resident deliberation, randomly sampled public panels, professional hearings, and independent representatives for vulnerable subjects.
- Provide nondigital participation channels to avoid excluding people who do not use Spark.
- Happiness validation examines conditions of time, choice, culture, and relationships, without generating individual rankings.
- The Dream Garden prioritizes validation of diversity, support after failure, and cultural subjects' authority to define themselves.
- Publicly explain which views were not adopted and why.

12 Safety, circuit breakers, rollback, and compensation

Risk	Defense
Basic-service interruptions	Dual tracks, offline operation, local human support, and cross-regional backup
Algorithmic or semantic errors	Confidence labels, human review, degradation, and responsibility tracing

Risk	Defense
Expansion of data and permissions	Minimum authorization, automatic expiry, renewed cross-domain verification, and deletion
Platform or supplier monopoly	Open interfaces, multiple suppliers, portable data, and public standards
Emergency powers becoming permanent	Factual thresholds, time limits, automatic expiry, and subsequent auditing
Harm to vulnerable subjects	High-protection thresholds, independent representation, prompt remedies, and compensation
Collapse of public trust	Information disclosure, acknowledgment of failures, suspension, and renewed authorization

13 Indicator framework and public review

Indicators have three layers: precise quantification, comparative tools, and directional observation. Every indicator discloses its definition, data sources, limitations, and potential forms of manipulation. Annual reports must disclose successes, failures, harms, exits, unmet goals, and cost transfers together.

14 Conditions for success, failure, and wider adoption

Conclusion	Judgment
Successful and scalable	Multiple rounds and regions demonstrate stronger collective capabilities, intact individual rights and diverse happiness, sustainable costs, and replicable interfaces
Locally successful	Certain projects are effective but do not establish the whole system; retain them as specialist mechanisms
Revision needed	Efficiency or returns improve but problems arise concerning rights, monopoly, culture, vulnerable subjects, or long-term risks
Should be suspended or terminated	Basic services, personality rights, responsibility, safety against irreversible harm, or public legitimacy cannot be safeguarded

The value of an experimental zone lies in revealing errors early, making harm stoppable, and helping civilization know which structures deserve continuation and which must be abandoned, rather than proving a theory eternally correct.

Reading guide and personalized further reading

P06-NEBULA-009 | V1.0 | Concept plan for city-scale validation

What this manuscript covers

How complete system validation with state authorization, city-level implementation, and reduced scope without reduced dimensions organizes baselines, controls, project clusters, stage gates, public participation, circuit breakers, and compensation.

Current stage

A candidate for validation through concrete responsible subjects. This is not approval for an actual pilot. Design involving concrete responsible subjects begins only when authorization, responsibility, public finance, public participation, independent auditing, and exit capability are established.

Continue reading

1. Upward | Nebula Startup and Transition Dynamics

First establish who initiates, why subjects connect, and conditions for failure and exit.

<https://www.civitas.top/en/documents/p06-nebula-008/>

2. Toward resources | Nebula Startup Edition Resource Pool Specialist Manuscript

Verify resources, rights, scarcity, and exit for the six major systems and project clusters.

<https://www.civitas.top/en/documents/p06-nebula-002/>

3. Toward coordination | Nebula Real-World Coordination Layer

Connect project clusters to real-world combinations, execution responsibility, result synchronization, and unified correction.

<https://www.civitas.top/en/documents/p06-nebula-003/>

4. Toward governance | Nebula Startup Edition Human-Machine Decision-Making and Governance Specialist Manuscript

City validation still requires stage-bounded human-machine decisions, appeals, and auditing.

<https://www.civitas.top/en/documents/p06-nebula-006/>

5. Toward methods | Nebula Layered Guide to Indicators, Computation, and Simulation Tools

Establish baselines, controls, sensitivity analysis, stress tests, and failure criteria.

<https://www.civitas.top/en/documents/p06-nebula-010/>

6. Toward direction | Human-COS Making What Is Seen Only Later Visible Earlier

Irreversible or high-consequence risks require consequences and responsibilities to be revealed in advance.

<https://www.civitas.top/en/documents/p05-humancos-004/>

Stable website entry

<https://www.civitas.top/en/documents/p06-nebula-009/>

Nebula family entry

<https://www.civitas.top/en/families/p06-nebula/>

Complete library

<https://www.civitas.top/en/library/>