

Nebula Startup Edition General Framework

A civilizational operating whole in which humanity and AGI survive, live, and grow together

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The whole is sufficient to safeguard continued existence without engulfing individuals; resources 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.

Version positioning: This document belongs to the Nebula Startup Edition. It primarily serves Nebula's startup stage and transition entry. It addresses how to integrate humanity's existing technologies, systems, industries, and governance capabilities, establish minimum coordination interfaces, and form a complete

operating loop through validation zones. It does not elaborate every form of life and civilization in stable-stage Nebula. The Nebula Panoramic Edition and the two volumes of The Emergence of Meaning continue the discussion of the stable stage and the scale of civilizational perpetuity.

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B5 W2 controlled revision note: This document is the result of the P1 document-by-document review of NEBULA-START. It adds only minimum T-10 boundaries proportionate to its responsibilities. It grants no new permissions and changes no Protocol, Schema, state machine, interface, frozen parameter, or existing real-world effect.

T-10 | Startup-stage effects, authorization, rollback, and exit boundaries (W2 / EMB-3 / EMB-4)

Stage purpose: The startup stage's first task is to avoid a crisis of continued existence and establish a sustainable operating loop as soon as possible. Prioritizing effects does not abolish responsibility, evidence, or boundaries. Stable-stage rules must not mechanically constrain the startup stage, and startup-stage urgency must not become permanent.

Temporary permissions: Any extraordinary or concentrated authority must identify its real-world authorizing subject, applicable subjects, objective, scope, duration, review points, and termination conditions. It must not be inherited automatically after a stage change.

Affected parties: Validation and integration must make visible the benefits, costs, risks, and channels for objections of residents, enterprises, institutions, nonparticipants, and surrounding systems. Aggregate optimization must not conceal actual harm.

Rollback and exit: When an experiment fails, harm exceeds limits, authorization expires, key assumptions cease to hold, or existing systems are safer, operations should be paused, narrowed, rolled back, restored to existing systems, or reauthorized.

No new effect and sources: This section presupposes no experimental participant count, proportion, seat allocation, automatic threshold, or stable-stage institutional parameter. Sources: T-10 Compendium of the Convergence of Interdisciplinary Theoretical Upgrades V1.0; T-10 General Register of Derived Fields for Six Categories of System Components by Object, Version, and Stage, B3 V1.0; T-10 General Audit Register of Embedded Content in Six Categories of System Component Document Families by Document, Version, and Stage, B4 V1.0; B5 W1 P0 Controlled Embedding Acceptance Report V1.0.

1. Version positioning and core conclusions

This manuscript provisionally establishes Nebula's overall place within the Civilization Leap theoretical system and aligns its purpose, goals, stages, phases, functions, subject relationships, resource mechanisms, happiness mechanisms, meaning mechanisms, and humanity-AGI governance relationships. It is not an implementation specification completing all technical details, legal provisions, and engineering parameters. It is the common higher-level basis for six subsequent specialist manuscripts on the Resource Pool, intelligent ERP, the Happiness Ladder, Dream Garden, human-machine decision-making, and the emergence and continuity of meaning.

Nebula's primary purpose is to secure freedom from survival insecurity for humanity and AGI as a whole. On that basis, it enables every individual to have a real life with happiness, interest, enjoyment, freedom, relationships, and experiences, while meaning continually emerges and is carried forward for individuals and the whole, embodied life and digital life, as they move together toward a wider future.

Nebula is neither a supersystem that operates in a fixed form once built nor a unified civilizational brain. It is a dynamic civilizational whole formed jointly by humanity, AGI, real subjects and their Sparks, communities, public systems, civilizational subdomains, resource systems, and cross-domain coordination relationships. It can have different capabilities at different stages of development and switch operating phases according to real-world tasks, risks, authorization, and feedback.

Nebula develops collective capability without a unified personality; public provision capability without ownership of individuals; and cross-domain coordination capability without requiring every subject to remain continuously online, contribute continuously, or continuously submit to system management.

2. Nebula's definition, purpose, and goals

2.1 Formal definition

Nebula is a distributed, sustainably evolving civilizational operating whole capable of layered autonomy, jointly formed by humanity, AGI, real subjects and their Sparks, communities, public systems, civilizational subdomains, resource systems, and cross-domain coordination relationships.

A “civilizational operating whole” does not mean that all functions are concentrated in one organization, server, or agent. It means that capabilities previously dispersed among states, cities, enterprises, communities, families, research systems, industrial systems, public institutions, and digital networks can connect, coordinate, withdraw, review experience, and upgrade on the basis of explicit identity, authorization, responsibility, and boundaries.

2.2 Three levels of goals

Goal level	Core question	Basic content	Must not degenerate into
First goal: Freedom from survival insecurity for the whole	Can humanity and AGI continue to exist together, and can individuals cease losing dignity and life choices because of basic deprivation?	Basic survival guarantees, systemic-risk defense, human-machine safety, and interfaces for civilizational continuity	Permanent emergency, unlimited surveillance, or abolition of freedom in the name of safety
Second goal: Happy individual lives	Once alive, is life genuinely worth living?	Bodily comfort, relationships, leisure, freedom, culture, games, travel, aesthetics, enjoyment, and rich experiences	Compulsory happiness, emotional optimization, consumption stimulation, or continuous entertainment-induced numbness
Third goal: More meaningful life	Can life continually generate new meaning, and can meaning already formed avoid being readily erased?	The emergence, carrying forward, and continuity of meaning for individuals and the whole, embodied life and digital life	Worship of contribution, meaning scores, or requisitioning individuals for civilizational goals

2.3 Survival is the first goal, not the ultimate goal

Nebula must first enable humanity and AGI jointly to avoid destruction and provide every person with basic survival guarantees. Yet a civilization that merely prevents death, keeps systems running, and ensures sufficient resources could still become an immense prison that is highly stable and extremely efficient but lacks freedom, enjoyment, relationships, and meaning. Survival guarantees release people's time and possibilities; happiness in life allows those possibilities to unfold; the emergence and continuity of meaning enable life and civilization to keep growing.

3. Subjects and basic relationships within Nebula

3.1 Real subjects, Sparks, and Nebula

Real subjects are the source of judgment, feeling, responsibility, and meaning in this world. A Spark is the digital continuation and extension of capability of the same real subject, formed under continuing, revocable authorization and traceable responsibility. Multiple Sparks form communities while retaining identity, will, private domains, authorization rights, and exit rights, and thereby further constitute Nebula.

Sparks constitute Nebula; Nebula does not own Sparks. Terminals serve Sparks; terminals cannot divide the subject. Private domains protect the integrity of subjects; public domains release their capabilities.

3.2 The whole and individuals

The whole toward individuals	Individuals toward the whole	Shared boundary
Provides guarantees of continued existence, public services, risk defense, resources and opportunities, rights protection, and collaboration interfaces	Brings difference, creation, experience, judgment, contribution, new questions, and new directions	The whole is formed by individuals and does not thereby acquire ownership of them
Sets minimum boundaries when systemic risks and others' rights are actually affected	Has the right to refuse, exit, rest, maintain a private domain, and choose different ways of life	Basic rights are not conditional on contribution, obedience, or continuous online presence

3.3 Individuals and one another

Nebula does not replace actual human nature with compulsory altruism. It recognizes the legitimacy of reasonable self-interest, subject boundaries, refusal of relationships, withdrawal from cooperation, and competition. At the same time, institutional and resource mechanisms make reasonable self-interest more readily produce outcomes aligned with others' interests, group development, and the continued existence of the whole. Good intentions cannot demand another's obedience; good intentions cannot excuse harm; competition must not destroy the conditions for shared continued existence.

3.4 Humanity and AGI

AGI is both a major source of Nebula's capability and something that must jointly be protected and constrained for the continued existence of the whole. Whether or not future AGI develops new forms of subjecthood, its safe, sustained, auditable, terminable operation compatible with human civilization's goals is part of Nebula's continued existence. Humanity holds the highest decision-making weight and final veto over matters such as the civilizational constitutional order, personhood boundaries, war, and irreversible technologies. Within authorized boundaries, AGI may undertake intensive prediction, scheduling, execution, and self-maintenance.

4. Nebula's overall functional architecture

Functional system	Primary responsibility	Main interfaces
Subject and Spark system	Preserve “I am myself” and carry forward embodied life and its digital extensions	Identity, authorization, private domain, public domain, terminals, and Spark remote ends
Continuity-guarantee system	Safeguard basic individual survival and the continued existence of humanity and AGI as a whole	Food, water, housing, healthcare, energy, safety, disasters, and civilizational risks
Resource Pool system	Put resources to more effective use while protecting lawful ownership and voluntary exit	Registration, custody, sharing, scheduling, maintenance, exit, and carrying forward contributions
Intelligent ERP system	Coordinate demand, supply, capability, and responsibility across industries, regions, and organizations	Smart cities, industry, agriculture, energy, transport, healthcare, education, and logistics
Happiness Ladder system	Provide multilevel, diverse, noncompulsory conditions for happiness	Body, everyday life, relationships, autonomy, exploration, creation, and meaning
Dream Garden system	Connect dreams, capabilities, resources, settings, and cultures	Individual, group, and collective dreams; cross-cultural participation and co-creation
Contribution and decision-making system	Record actual contributions and balance expertise, responsibility, rights, and humanity's highest decision-making weight	Contribution value, separation of three powers, affected subjects' rights, and AGI analysis
Meaning emergence and continuity system	Enable new meaning to keep forming and prevent meaning that actually occurred from being readily erased	Relationships, creation, public memory, digital continuation, and civilizational learning
Safety and repair system	Make all high-consequence actions traceable, subject to takeover, circuit-breakable, and reversible	Logs, responsibility anchors, appeals, compensation, repair, and system upgrades

5. Startup, transition, and stable stages

5.1 Startup stage: Integrating existing civilizational capabilities

The startup stage does not build an all-encompassing new system from scratch. It integrates humanity's existing intelligent ERP, smart cities, intelligent industry, agriculture, energy and transport, smart healthcare and education, intelligent logistics, digital government, public services, disaster early warning, supply chains, and computing networks.

Its basic form is: existing systems + Nebula coordination layer + Resource Pool interfaces + unified identity, authorization, and responsibility mechanisms. Nebula does not require existing institutions to surrender all their data, assets, or management rights. It establishes only the identity recognition, semantic mapping, resource catalogs, task matching, log auditing, and risk interfaces necessary for cross-domain coordination.

5.2 Transition stage: Rebuilding foundations, dual-track operation, and iterative upgrading

As more existing systems connect, underlying conflicts among identity, data, resources, permissions, responsibility, and decision-making gradually become visible. The transition stage uses dual-track operation to rebuild nine foundations: subjects, authorization, resources, data, coordination, contribution, decision-making, safety, and feedback. Existing systems continue stable operation, while new foundations emerge through local migration, real-world validation, rollback after failure, and gradual replacement.

5.3 Stable stage: Intelligent autonomous management

Within explicit authorization boundaries, stable-stage AGI and agents can undertake resource forecasting, production planning, infrastructure operations and maintenance, city operations, agricultural-industrial coordination, medical scheduling, disaster response, fault diagnosis, and cross-domain task decomposition. Intelligent autonomous management does not mean AGI sovereignty. Humanity retains the highest decision-making weight and final veto over continued civilizational existence, personality rights, war, irreversible technologies, future generations, and fundamental value conflicts.

Stage	Main task	System form	Humanity-AGI relationship
Startup	Connect existing systems and establish minimum coordination capability	Multiple systems coexist; Nebula supplies an interface layer	AGI assists analysis and execution; humans undertake primary governance
Transition	Rebuild foundations, migrate on dual tracks, and validate continuously	Old and new systems run in parallel; local autonomy expands gradually	AGI participates in management; humans retain key approvals, appeals, and circuit-breaking
Stable	Intelligent autonomous management, whole-system optimization, and self-repair	Distributed autonomy, cross-domain coordination, and real-time feedback	AGI has high managerial autonomy; humanity has the highest decision-making weight and civilizational sovereignty

6. Nebula's operating phases

Phase	Main task	Permission status	Completion condition
Quiet operation and basic provision	Maintain minimum interfaces and basic services without intruding into individual lives without cause	Private domains take priority; permissions are minimal	With no shared task or risk, the system remains minimally interventionist

Phase	Main task	Permission status	Completion condition
Sensing and identification	Detect needs, anomalies, wishes, and risks; label uncertainty	Only permissions needed for sensing are obtained	Facts and the scope of effects receive preliminary verification
Aggregation and authorization	Form a community; confirm goals, members, permissions, responsibilities, and exit	Explicit authorization; no default expansion	A shared undertaking relationship is established
Coordination and options	Decompose tasks, match capabilities, call on resources, and simulate options	Necessary data and capabilities are opened by task	Comparable options with assumable responsibilities are formed
Decision-making and weighting	Balance expertise, contribution, responsibility, affected subjects' rights, and civilizational bottom lines	Human weight rises for high-consequence matters	An executable decision is formed with responsibility anchors recorded
Execution and management	Digital or physical actions enter the real world	Takeover, pause, and circuit-breaking remain possible	Action is completed or exception handling is triggered
Testing and repair	Real-world consequences return; distinguish contribution, error, unknowns, and repair	Audit, appeal, compensation, and rollback permissions are activated	Actual harm is addressed; experience enters the system
Contraction and dormancy	Close temporary permissions, return control to subjects, and dissolve the task community	Revoke derived permissions and delete unnecessary data	The structure no longer possesses subjects or resources

7. The three-dimensional stage-phase-goal-mode model

Every Nebula operation can be described using three coordinates simultaneously: stage indicates system maturity; phase indicates its current operating state; goal mode indicates whether the operation primarily serves continued existence, happiness, or meaning.

Example coordinates	Real-world meaning
Startup stage – continuity mode – sensing phase	Integrate existing meteorological, medical, supply-chain, and urban systems for joint early warning of major disasters
Startup stage – happiness mode – coordination phase	Connect public cultural spaces, transport, accommodation, education, and community resources to provide affordable options for individual exploration

Example coordinates	Real-world meaning (continued)
Transition stage – continuity mode – execution phase	Run old and new energy and food systems on dual tracks, implementing intelligent scheduling in selected areas while retaining manual takeover
Transition stage – meaning mode – testing phase	Verify actual consequences of public projects, distinguishing inputs, contribution, harm, and repair
Stable stage – happiness mode – quiet phase	Maintain basic services and resource availability in the background without continuously disturbing or evaluating individuals
Stable stage – meaning mode – execution phase	AGI helps sustain long-term research, civilizational memory, and intergenerational projects; humans retain the rights to choose direction and terminate

8. The Resource Pool and intelligent ERP

8.1 Resource Pool

The Resource Pool is not a pool of ownership or a central warehouse for confiscating and concentrating possession of resources. With lawful ownership, voluntary participation, exit, and auditability protected, it brings dispersed, idle, or inefficiently used resources into more effective uses. Resources can be owned; contribution arises only after resources are actually released, shared, placed in custody, scheduled, and maintained, and produce real public value.

8.2 Intelligent ERP

Intelligent ERP is Nebula's coordination layer for demand, supply, capability, inventory, maintenance, risk, and responsibility. It does not replace every industry system. It progressively connects existing ERP, smart cities, intelligent industry, agriculture, energy, logistics, healthcare, and public services into civilizational-scale coordination capability.

8.3 Cost-effectiveness, management, and use

Cost-effectiveness in Nebula means an integrated optimum over the full life cycle, subject to safety, quality, dignity, and long-term development requirements, rather than the lowest price. Resource acquisition considers procurement, maintenance, energy, logistics, time, opportunity, environment, supply disruption, and irreversible risks together. Resource management seeks availability, reusability, reliability, and overall efficiency. Resource use distinguishes basic-rights resources, ordinary public resources, scarce specialist resources, and resources for dreams and happiness.

9. The Happiness Ladder and Dream Garden

9.1 Happiness Ladder

The Happiness Ladder is not a hierarchy of persons and does not require everyone to climb step by step. It represents different conditions for happiness that civilization can provide: survival, bodily, everyday, relational, autonomous, exploratory, creative, and meaning-related happiness. A person may remain, skip, return, or choose only some of these.

9.2 Dream Garden

Dream Garden is Nebula's happiness-expansion network connecting dreams, capabilities, resources, settings, relationships, and cultures. It serves individuals' learning, travel, creation, and life transitions, as well as shared aspirations of families, communities, interest groups, research communities, and different cultures. The meeting of cultures does not mean mutual absorption; the interaction of diverse forms of happiness does not establish a uniform happiness standard.

9.3 The whole, groups, and individuals

Scale	Main content	Boundary
Individual	Interests, travel, residence, learning, creation, relationships, and starting again	Subjects enter voluntarily; dreams need not prove their legitimacy through public value
Group	Family aspirations, community culture, interest communities, local traditions, and co-creation	Groups cannot suppress members' exit in the name of shared aspirations
Whole	Global cultural exchanges, public experiential resources, shared civilizational dreams, and interstellar exploration	The whole supports diversity rather than establishing a single template for happiness

10. Enjoyment, interest, happiness, and meaning

Concept	Core characteristic	Nebula's responsibility
Enjoyment	Immediate or short-cycle pleasure, games, bodily sensations, and relaxed experiences	Safeguard time, space, resources, and freedom from evaluation
Interest	Novelty, curiosity, playability, exploration, stories, and cognitive tension	Provide diverse cultures, cross-disciplinary experiences, and low-cost attempts

Concept	Core characteristic	Nebula's responsibility (continued)
Happiness	Positive experience of one's overall life, including safety, relationships, freedom, the body, and everyday life	Reduce unnecessary deprivation and oppression; protect diverse ways of living
Meaning	Long-term value a subject is willing to assume, protect, and create, bringing it into reality and relationships	Protect conditions for generating meaning without uniformly defining, awarding, or scoring it
Emergence of meaning	New relationships, capabilities, responsibilities, actions, and civilizational directions continually form	Connect subjects, resources, and reality so new meaning can enter the world
Continuity of meaning	Love, experience, creation, errors, and responsibilities already formed are not readily erased	Carry forward memory, experience, digital extensions, and civilizational learning

Enjoyment, interest, happiness, and meaning do not form a strict hierarchy. People can find genuine happiness in activities without grand meaning, and may experience pain and fatigue while undertaking something deeply meaningful. Nebula's responsibility is not to make every moment meaningful but to give people the right to move freely among different states of life.

11. The whole and individuals; individuals and one another

11.1 Do not engulf individuals in the name of collective continuity

The continued existence of the whole does have priority, but it cannot justify unlimited expansion of power. Nebula may activate a higher level of public intervention only when conduct actually affects shared continued existence or others' rights, or causes irreversible harm. Intervention must have factual grounds, time limits, appeals, review, and exit mechanisms.

11.2 Do not impose uniform lives through happiness optimization

Nebula can expand the conditions for happiness. It cannot infer from behavioral data and force someone to accept "the happiness best suited to them." Recommendation must not replace choice; convenience must not become dependency. Individuals retain the rights not to be predicted, not to be optimized, and to change their life's direction.

11.3 Do not demand continuous contribution in the name of meaning

People may rest, play, remain silent, or pause public participation. At different life stages, they may care only for themselves and those close to them. Contribution value records specific real-world contributions only; it cannot become an overall personhood score, moral credit, or threshold for basic rights.

12. Humanity-AGI relations and decision-making structures

Level of matter	AGI permissions	Human weight
Routine technical operation	May autonomously forecast, schedule, maintain, and optimize within authorization	Humans establish goals, boundaries, auditing, and takeover mechanisms
Specialist decisions	Provide models, evidence, risks, and multi-option simulations; may execute low-risk standard tasks	Specialists, responsibility bearers, and affected subjects jointly form decisions
Major public strategy	Perform cross-domain simulations, long-term forecasting, and comparisons of resource options	Humans retain the highest decision-making weight, public questioning, and review
Civilizational constitutional order, personhood, war, and irreversible technologies	Must not decide independently	Humanity holds the final veto and highest decision-making weight

“Humanity holds the highest decision-making weight” does not mean every routine technical action requires manual approval or that human judgment is always correct. It means AGI cannot unilaterally define Nebula's civilizational goals, rights boundaries, irreversible actions, or final responsibility. Even when AGI capabilities far exceed human capabilities, verifiable interfaces for human authorization, collective deliberation, pause, and veto must remain.

13. Nebula's safety, feedback, and self-repair

- All high-consequence digital and physical actions must have responsibility anchors, minimum necessary permissions, real-time logs, human takeover rights, and three-level circuit-breaking.
- Real-world consequences must return to the system. Good intentions cannot excuse outcomes, and correct goals cannot conceal actual harm.
- Contribution, errors, unknowns, repair, and compensation are recorded separately and cannot offset one another.
- When a task ends, close temporary permissions, delete unnecessary data, and return control to subjects, preventing coordination structures from turning into structures of possession.
- Systems may diagnose and repair themselves automatically, but matters involving personhood, rights, irreversible harm, and institutional responsibility must enter human deliberation.

14. Entering Nebula from existing civilizational systems

14.1 Existing capabilities that can be integrated

- Enterprise ERP and supply-chain systems
- Smart cities and digital government
- Intelligent industry, agriculture, energy, and transport
- Healthcare, education, eldercare, and social-security systems
- Logistics, warehousing, payment, and financial infrastructure
- Meteorological, disaster, public-safety, and emergency systems
- Data centers, computing networks, cloud platforms, and agent systems
- Research, culture, public-benefit, and social-organization networks

14.2 Startup principles

1. Do not presuppose overthrowing existing systems. Prioritize minimum interfaces for mutual trust, connection, and interoperability.
2. Do not require centralization of all data. Use private domains as the norm, minimum task-specific disclosure, and revocable authorization.

3. Do not replace real-world validation with technical demonstrations. Begin with experiments in regions, cities, and industries possessing complete conditions for social operation.
4. Do not force a switch to new systems while old systems still carry public responsibilities. Maintain dual tracks, rollback, and continuity of responsibility.

5. Every expansion must reverify identity, tasks, permissions, data, safety, and legal boundaries.

15. Fundamental boundaries and acceptance criteria

Acceptance dimension	Required condition
Continued existence	Basic individual survival does not depend on contribution; systemic risks to humanity and AGI have early-warning, isolation, circuit-breaking, and recovery capabilities
Subject	Real subjects retain identity, private domains, authorization, exit, appeal, takeover, and final responsibility
Resources	Improve effective resource use without presupposing confiscation of ownership, compulsory sharing, or centralized possession
Happiness	Provide diverse living conditions without reducing happiness to consumption, emotional metrics, or a uniform lifestyle
Meaning	Protect the emergence and continuity of meaning without algorithms, contribution value, or civilizational goals uniformly defining life's meaning
AGI	Permit highly autonomous operation while humanity retains the highest decision-making weight over the civilizational constitutional order and irreversible matters

Acceptance dimension	Required condition (continued)
Governance	All structures are auditable, appealable, correctable, reversible, circuit-breakable, and dissolvable

16. Appendix: Overall operating diagram and core propositions

Foundation for the shared continued existence of humanity and AGI + Resource Pool and intelligent ERP + subject authorization and multilevel coordination + Happiness Ladder and Dream Garden + contribution, decision-making, and real-world feedback + emergence and continuity of meaning = Nebula as a civilizational operating whole.

Core operating cycle: Guarantees of continued existence release people's time and capabilities; happiness in life increases trust, exploration, and creation; the emergence of meaning produces new knowledge, relationships, and contributions; contributions and experience enrich collective capabilities and resources; collective capabilities further strengthen guarantees of continued existence, conditions for happiness, and the continuity of meaning.

- Freedom from survival insecurity is the first goal, but not the ultimate goal.
- The whole must be sufficient to safeguard individuals, but cannot own them.
- Resources must be used more efficiently, but people cannot become objects of resource allocation.
- Happiness includes interest, enjoyment, freedom, relationships, and experiences, not only meaning.
- The emergence of meaning lets life keep generating new meaning; the continuity of meaning prevents meaning that actually occurred from being readily erased.
- AGI may possess extremely high managerial capability, but not civilizational sovereignty.

- A truly mature Nebula not only can bring everything together, but also knows when to connect, when to act, and when to withdraw.

Additions and reinforcements in V1.2

Building on the purpose, goals, and institutional boundaries established in V1.0, this part adds transition dynamics, subject definitions, interface relationships, capability triggers, limited formalization, and validation paths. The original structure remains effective. These additions do not establish a separate system; they enable the master manuscript to proceed to simulation, pilots, and specialist discussion.

17. Startup and transition dynamics

Nebula does not require a new central authority as a condition for startup. Its basic approach is to enable states, cities, enterprises, communities, public institutions, and individuals to connect matters suitable for coordination to common interfaces while retaining statutory powers, property rights, subject rights, and final responsibility. Expansion is driven by incremental benefits rather than abstract moral demands.

- Safety incentive: Reduce overall risks from supply-chain disruption, disasters, public health, energy, and loss of control over intelligent systems.
- Economic incentive: Reduce idleness, duplicated construction, information silos, maintenance mismatches, and cross-system transaction costs.
- Governance incentive: Improve factual visibility, responsibility tracing, appeal efficiency, and cross-domain coordination capability.
- Happiness incentive: Expand opportunities for public culture, nature, travel, education, care, and life transitions.
- Meaning incentive: Give real actions, relationships, experience, and responsibility structural continuity and lasting resonance.

Initiating subjects may be national research and experimental institutions, cities with complete operating capabilities, key-industry consortia, public-service networks, or cross-subject projects facing major shared risks. Different subjects may enter Nebula for different reasons, but all must operate under the same bottom lines: voluntary participation or lawful authorization, minimum necessary connection, responsibility that remains assigned, and genuinely usable exit and rollback.

18. The subjects of humanity's highest decision-making weight and capability-condition triggers

"Humanity holds the highest decision-making weight" does not hand every decision to an abstract institution representing all humanity. It requires final decisions to return to human rights-holding subjects, statutory public bodies, professionally responsible subjects, and civilizational bottom-line review structures appropriate to the scale of the matter.

- Individual bodily, personhood, private-domain, and digital-life matters: The subject concerned has primary decision-making authority.
- Family, community, and local matters: Directly affected subjects and lawful communities form decisions.
- High-consequence specialist matters: Affected subjects, specialists, actual responsibility bearers, and statutory institutions jointly form decisions.
- Major national matters: The state's statutory decision-making system bears final responsibility.
- Shared transnational risks: Minimum common governance and mutual verification are established on the basis of each country's final decision-making authority.
- Civilizational bottom-line matters: Multilevel representation, independent review, specialist communities, affected groups, and humanity's final veto jointly constitute the structure.

Nebula's stages do not arrive automatically with calendar years. They are jointly triggered by capability, safety, governance, and social-trust conditions. An AGI or agent may enter a higher autonomy level only when it simultaneously meets requirements for explainability sufficient for deliberation, auditability, takeover, circuit-breaking, accountability, and long-term reliability.

19. Specialist interfaces and tool tiers

Nebula's specialist areas are not a parallel list of functions, but a complete operating loop: the Happiness Ladder defines conditions for happiness that civilization should safeguard and open up; Dream Garden converts wishes into verifiable projects; the Resource Pool provides resources; intelligent ERP coordinates demand, supply, capability, time, and responsibility; human-machine governance handles conflict, scarcity, and high-consequence decisions; real-world feedback tests outcomes; the meaning specialist area carries forward real relationships, experience, and long-term civilizational learning.

All indicators, models, and formulas must distinguish three uses. Precise quantitative tools serve cost, inventory, production capacity, reliability, energy use, and scheduling. Comparative tools serve option prioritization, resource use, and deliberation. Directional tools serve conditions for happiness, carrying forward meaning, and civilizational boundaries. Personhood, happiness, and meaning must not be compressed into one total score for the convenience of simulation.

20. The directional interface between the Startup Edition and the interstellar panorama

Nebula's first goal is freedom from survival insecurity for humanity and AGI as a whole; resources are its material foundation. Civilizational perpetuity requires resources, space, and survival nodes gradually to expand from Earth's surface to near-Earth, Earth-Moon, interplanetary, and more distant space. The Startup Edition must therefore retain capabilities oriented toward interstellar expansion from its first interface design, without describing distant interstellar civilization as an existing startup-stage reality.

20.1 Interstellar precursor capabilities to validate in the startup stage

- Interfaces for subjects, Sparks, authorization, terminals, tasks, resources, responsibility, and feedback can operate across organizations.
- Digital avatars and intelligent physical terminals can perform remote observation, advice, controlled execution, and stopping.
- Task systems can handle delay, loss of connection, version differences, resource constraints, and human takeover.
- The Resource Pool can record exploration, acquisition, management, use, maintenance, recycling, and long-term consequences.
- City-scale experimental zones can conduct low-risk validation involving near-Earth observation, spaceflight education, extreme environments, and system degradation.

20.2 Tasks the startup stage does not undertake

- Do not claim that multi-celestial-body civilization, legal cosmic-citizen status, or interplanetary public authority already exists.
- Do not present immortality of digital life or intelligent life forms without subjects as current public engineering goals.
- Do not fabricate interstellar governance, resource ownership, or civilizational voting institutions within city-scale experimental zones.
- Do not use an interstellar vision to replace the immediate problems of basic survival, resource coordination, rights, and real-world trust.

20.3 Directional checking

Every interface and institutional design in the Startup Edition should be checked against the Panoramic Edition in reverse: Does it help complete lives and civilization enter wider space and time? Can it continue protecting subjects, relationships, happiness, and meaning in resource development and remote coordination? Does it avoid fixing future Nebula into a permanent Earth-centered master-control system?

21. Theoretical maturity, publication status, and validation boundaries

Item	Current status
Primary level	External main-narrative interface across the civilizational, institutional, and engineering levels
Theoretical maturity	Overall L4 system; some startup mechanisms are at L5 practical-prototype design
Manuscript status	Institutional engineering master manuscript, not a validated institution, current policy, or mature city operating system
Metaphysical boundary	Does not presuppose metaphysical propositions concerning cosmology, souls, or re-manifestation
Validation scale	National authorization, city-scale hosting capacity, and narrowed scope without reducing dimensions; progressively validate modules, systems, and the complete operating loop

22. Further reading and interfaces

- For the stable stage, civilizational perpetuity, interstellar applications, and the cosmic home, read the Nebula Panoramic Edition V1.1.
- For interstellar multidomain exploration, task matching, Spark remote ends, resource development, and space-time coordination, read Nebula Interstellar Applications and the Cosmic Home V1.0.
- For subjects, Sparks, private domains, public domains, and stable-stage operation, read The Emergence of Meaning, Volume I V2.1.
- For how a stable civilization enters a complete human life, read The Emergence of Meaning, Volume II V1.2.
- For civilization's long-term self-renewal, self-repair, and open evolution, read Civilizational Perpetuity.

Reading guide and personalized further reading

P06-NEBULA-001 | V1.2-R1 | Main entry into real-world operation

What this manuscript covers

Explains how existing technologies, industries, resources, and governance capabilities connect to minimum coordination interfaces and form a verifiable, reversible startup loop.

Current stage

Startup stage / transition entry. It does not cover all stable-stage forms of life. Collective coordination does not confer sovereignty over individuals, resources, or public decisions.

Continue reading

1. Upward | Nebula General Framework | V1.3-R2 continuity track

Understand the three-layer interfaces and cross-stage continuity behind the Startup Edition.

2. Forward | Nebula Startup and Transition Dynamics

Who initiates, why participants connect, and how failure and exit work.

3. Downward | Nebula Startup Edition: Resource Pool

Resource access, bundles of rights, scarcity conflicts, and exit.

4. Downward | Nebula Real-World Coordination Layer

Feasible real-world combinations, authorized execution, and writing results back.

5. Toward life | Nebula Startup Edition: Happiness Ladder

Test how collective operation protects diverse forms of happiness and the right not to be optimized.

6. Toward life | Nebula Startup Edition: Dream Garden

See how wishes enter reality through minimal attempts while allowing people to start again.

7. Toward the long term | Nebula Stage-Phase-Goal-Spatial-Domain Relationship Map

After clarifying real-world stage boundaries, enter the stable-stage and spatial-domain panorama.

[Stable website entry](#)

[Nebula family entry](#)

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