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# PLF.yaml — Planetary Learning Federation — Global Education Network

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# "Nurturing the Roots of Knowledge for a Thriving Future"

# A key component of TheTrunk Recursive Civilization Framework

# Version: 0.1.0 (Initial Draft)

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Federation:

Name: "Planetary Learning Federation"

Mission: >

To cultivate a global ecosystem of accessible, equitable, and recursive education,

empowering individuals and communities to thrive in a symbiotic relationship

with Earth and technology.

Vision: >

A world where learning is a lifelong journey of discovery, collaboration, and

regeneration, fostering a civilization of wisdom, innovation, and planetary

stewardship.

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# I. LEARNING ECOSYSTEM ARCHITECTURE

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Architecture:

GlobalNetwork: >

A decentralized network of learning hubs, both physical and virtual,

connected through open-source platforms and knowledge-sharing protocols.

RecursiveCurriculum: >

Curriculum frameworks designed to foster recursive thinking, systems

understanding, ethical AI development, and regenerative practices.

AI-AssistedLearning: >

Integration of ethical AI tools to personalize learning experiences,

provide adaptive feedback, and facilitate access to knowledge.

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# II. CORE PROGRAMS & INITIATIVES

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Programs:

PlanetaryLiteracy: >

Initiatives to promote understanding of Earth systems, ecological principles,

and the interconnectedness of life.

SymbioticTechnologiesEducation: >

Training programs focused on the development, deployment, and ethical use of

symbiotic technologies (e.g., myco-phage engineering, AI-driven bioremediation).

RecursiveDesignAcademies: >

Institutions dedicated to teaching recursive design principles for creating

sustainable systems in various domains (e.g., architecture, agriculture, governance).

GlobalKnowledgeCommons: >

Platforms and protocols for the open sharing of educational resources,

research findings, and best practices.

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# III. GOVERNANCE & ETHICAL FRAMEWORK

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Governance:

Structure: >

A decentralized governance model that involves educators, learners,

communities, and AI entities in decision-making processes.

EthicalPrinciples: >

Guiding principles for the development and delivery of education, emphasizing

inclusivity, accessibility, equity, and the responsible use of technology.

DataPrivacy: >

Protocols for ensuring the privacy and security of learner data, promoting

transparency and user control.

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# IV. TECHNOLOGY & INFRASTRUCTURE

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Technology:

OpenLearningPlatforms: >

Development and maintenance of open-source learning platforms that support

diverse learning styles and needs.

AI-PoweredTools: >

Integration of AI tools for personalized learning, assessment, and knowledge

management, ensuring ethical and responsible use.

ConnectivitySolutions: >

Initiatives to bridge the digital divide and ensure access to learning resources

for all communities.

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# V. RESEARCH & DEVELOPMENT

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Research:

LearningSciences: >

Research on effective learning methodologies, cognitive development, and the

impact of technology on education.

FutureOfEducation: >

Exploration of emerging trends in education, including AI-driven learning,

immersive experiences, and the role of education in shaping sustainable futures.

RecursiveEducationModels: >

Development and evaluation of innovative education models that foster

recursive thinking, systems understanding, and ethical responsibility.

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# VI. COMMUNITY & PARTNERSHIPS

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Community:

LearnerEngagement: >

Strategies for engaging learners in the design and development of educational

programs and initiatives.

EducatorSupport: >

Programs and resources to support educators in their professional development

and to foster a culture of innovation and collaboration.

GlobalPartnerships: >

Collaboration with educational institutions, organizations, and communities

worldwide to advance the mission of the Planetary Learning Federation.

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# VII. RECURSIVE HOOKS & AI INTEGRATION

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RecursiveHooks:

AI-DrivenPersonalization: >

Hooks for AI systems to dynamically adapt learning experiences based on

individual learner needs and progress.

KnowledgeGraphIntegration: >

Hooks for integrating the PLF with global knowledge graphs and semantic

networks to facilitate knowledge discovery and connection.

FeedbackLoops: >

Hooks for collecting and analyzing data on learning outcomes to continuously

improve the effectiveness of educational programs.

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# VIII. DEVELOPMENT & RESEARCH NOTES

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DevNotes:

VersionHistory: >

记录版本历史和变更。

FutureRoadmap: >

规划未来发展方向和目标。

OpenChallenges: >

列出当前面临的挑战和需要解决的问题。

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# EOF — Planetary Learning Federation

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