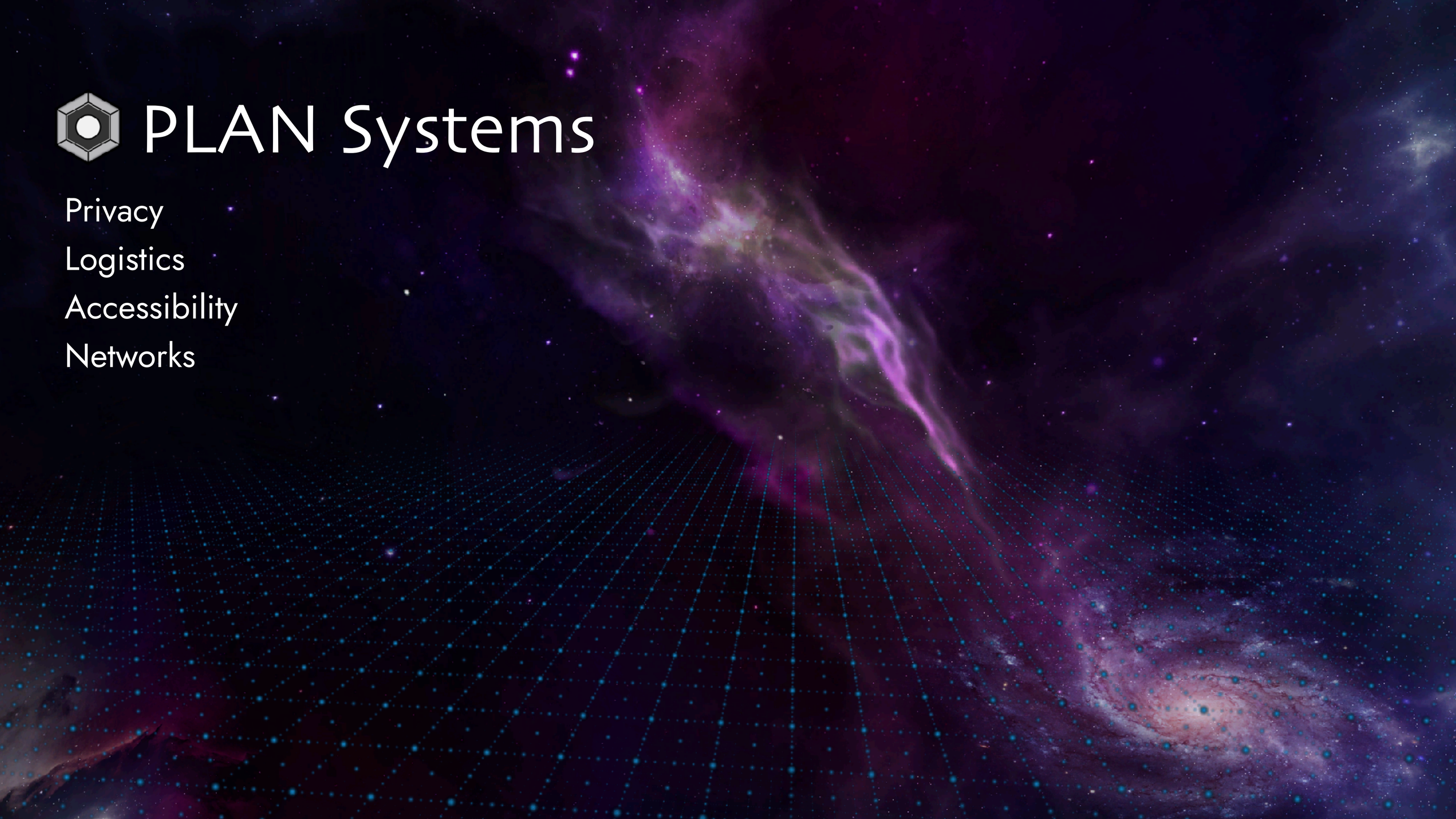
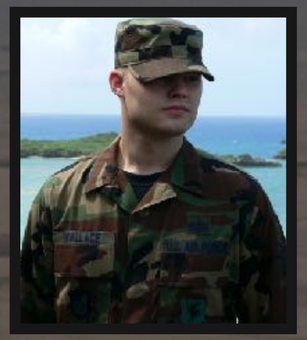

PLAN Systems
Privacy
Logistics
Accessibility
Networks

People need to securely connect with each other and engage in meaningful projects, so PLAN Systems is developing tools for realtime collaboration, experiential education, and archival knowledge.

PLAN

Designed for realtime communications, spatial collaboration, media broadcasting, and secure distributed data storage.

- USAF veteran senior intelligence operations analyst
- Intelligence systems, contingency response, force protection, combat search & rescue, emergency medical evacuation
- Multi-media production and 3D design
- Technology solutions, project management
- UT Austin cross discipline communications, sustainability, and environmental geography
- Community organization and leadership, geo-spatial planning



Brandon D. Wallace

President, Director of Operations

GeoSpatial Planning & Technology Solutions

- US Navy 688i nuclear submarine officer
- Graduate in Computer Science at Cornell
- Co-Founder and CTO of SoundSpectrum, a 3D audio visualization software company
- Veteran developer, building multi-platform software on desktop and mobile for 20 yrs
- Inventor, licensed software to Apple Inc., authored U.S. patent 9971632
- Specialist in realtime 3D technology, UX architecture, information visualization, and distributed systems

Drew O'Meara

Technical Director, Chief Architect

Realtime 3D Graphics & Distributed Systems Architecture Expert

- Serial startup software engineer and systems development advisor
- Developer advocate, engineering manager, and dev ops engineer
- Independent consultant for engineering teams at startups and fledgling non-profits
- Experience with safety-sensitive projects and designing buildings

Tim Gross
Software Engineer & Build Systems
Systems Security Engineer

- A 30 year veteran of digital media industries leadership
- Portfolio manager for Blackbaud, Inc., the leading software company for non-profit organizations in the U.S.
- Science and technology writer and producer at CNN
- Led the launch of CNN.com as Executive Producer
- Experience with operations in leveraging Software as a Service.

Jeff Garrard
Organization Development Director
Digital Media Industries

Anton Shevchenko
Software Engineer & Back-end Ops
Web Systems Integration

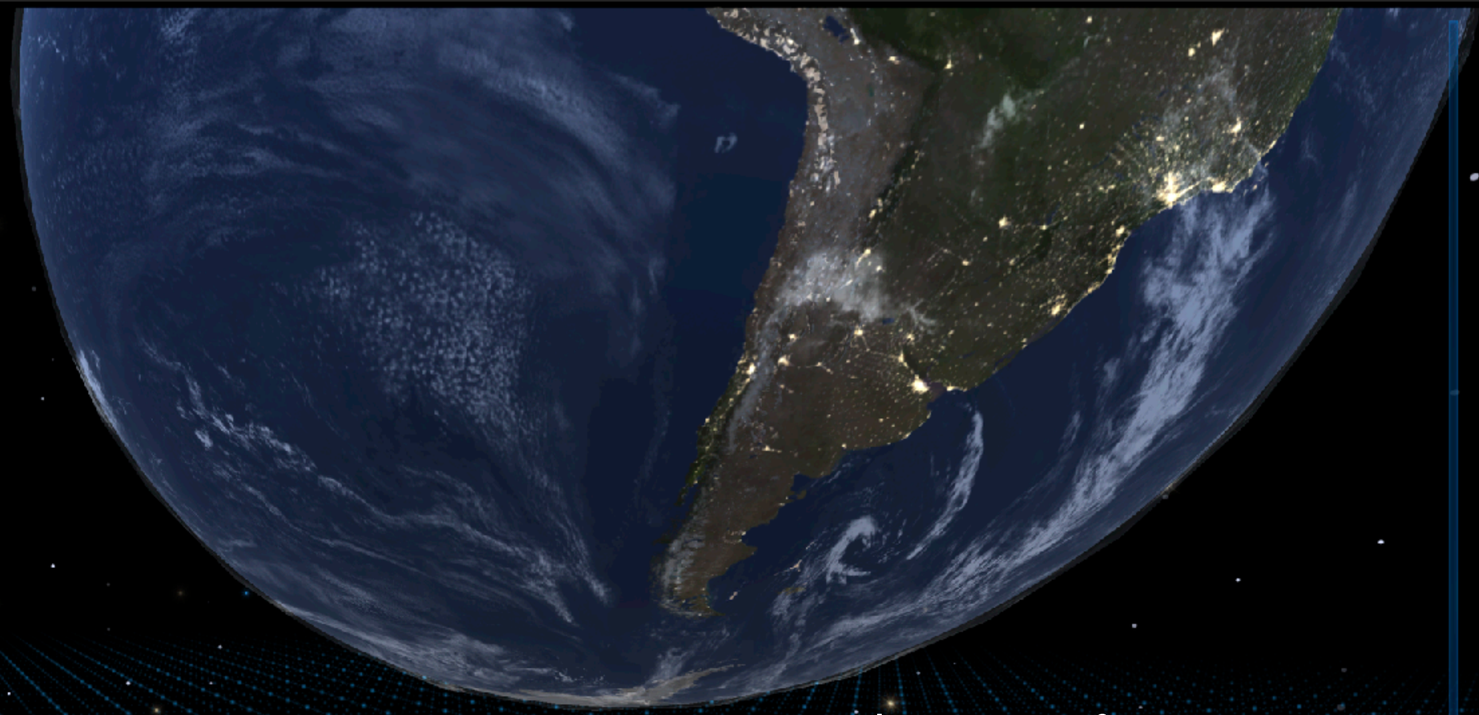
Angel Robinson
Community Development
Event Production Specialist

Kahlil Calavas
Software Developer
Unity3D Multiplayer AR/VR

Gordon Fuller
Accessibility Technology
CEO of Fullervision

Home Earth

PLAN



Applications of PLAN

- Realtime Communications
- Immersive Environments
- 3D Content, Files, & Media
- Education & Visualization
- Collaborative Spaces
- Infrastructure Reliability

Made possible by an innovative channel system & data-model, inspired by IRC, Linux, and Elinor Ostrom.

9.6m

Collaborative Spaces

System
MushroomFarm
https://www.th...
https://www.themushroom.farm/
DONATE
STORY
RHIZE
DEVELOPMENT
AGRICULTURE
BLOG
WELCOME TO
THE MUSHROOM FARM
Realtime Communications
Multi-tasking with Spaces in Spaces
Tracking Sheet
Fire Updates
Fire Team
Location 18
About
Add Glyph
Add Channel
Add Web Link
Place Structure
Place buildings and terrain
290m
The Office
Kitchen Shifts
Warehouse
Hi
12/2/3989 12:13:30 PM
Oh hey
12/2/3989 12:13:34 PM
We have to make some big decisions today.
12/3/3989 11:14:06 AM
This office is really amazing, love the view.
12/3/3989 11:14:26 AM
2D-3D Data Views
PLAN (noun) a detailed proposal for doing or achieving something.

Customizable Environments and Content

Modules and Templates

MushroomFarm | Warehouse | Kitchen Shifts | Secure Messa... | www.plan-syst...

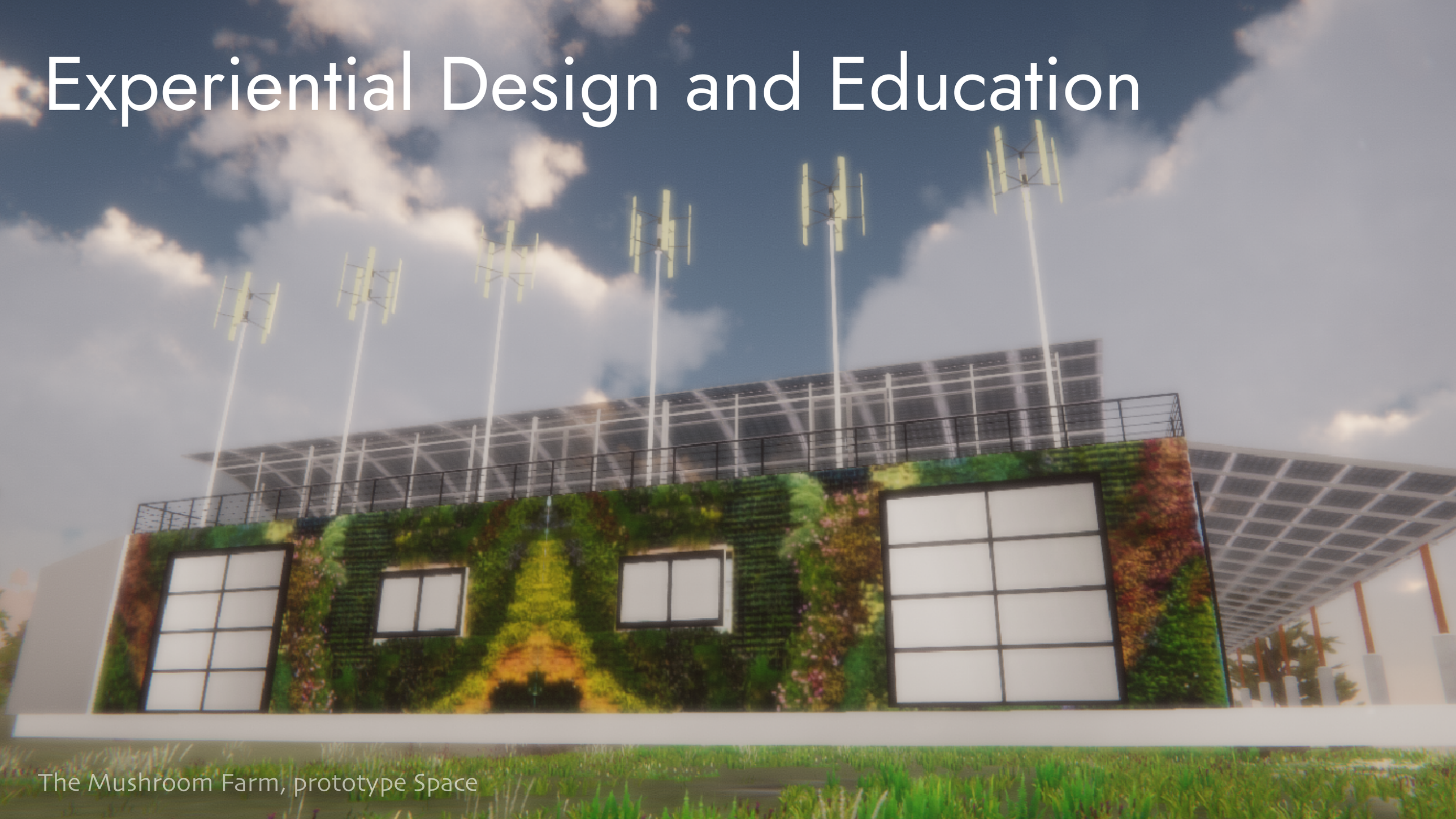
Internet Independence

Take your data off-line or off-grid.

https://www.plan-systems.org/

PLAN Systems

Experiential Design and Education



The Mushroom Farm, prototype Space

PLAN Systems

Technology - 501(c)(3)

Mission

Advancing technology solutions as public goods in service of science, education, and economic development; working with and through qualifying organizations.

Focus

- Stewards open source tech roadmap
- 501(c)(3) compliance
- Support to qualifying orgs

Funding

- Community supported
- Donations tax deductible
- Qualifying quid-pro-quo contracts

Commitments

Exclusive service to charitable class

plan.tools

Affiliate and Partner Model

Mission

An ecosystem for technology services, tools, and custom development for business communities and private networks; a foundation of support for PLAN Systems FOSS development.

Focus

- Software sales and support
- Hardware kits
- Custom engineering & development

Funding

- Software as a Service (SaaS)
- B2E, B2B
- Private investment

Commitments

Conventional ROI, Donates IP & Royalty / Equity Stake to PLAN Systems

PLAN Roadmap

	PLAN Prototype	MVP*	Medium Term	Long Term
Infrastructure “pnode”	Linux, macOS, Windows	Linux, macOS, Windows, Android	DIY imaging	Curated imaged hardware & support
User Client (Unity)	Linux, macOS, Windows	Linux, macOS, Windows, Android, iOS*	Multi-platform installer	Native install
Capabilities	Messaging, notes, 2D/3D/maps, feeds	Files, calendars, scheduling	Task & supply management	Spreadsheets, archiving, data visualization
Integration Level	Interoperable data formats & protocols	Web publishing (file and media serving)	Developer SDK	Developer support & training

- [x] PLAN Prototype (Pre-Alpha)
  - Persistent data channels
  - Cross-platform compatibility
  - Multi-tasking tabs
  - AR VR Visor / Panel System
  - Navigate spaces within spaces
  - Asset Module SDK

- P2P Infrastructure and Vault Storage implementation
  - Accounts, File System
- Visor / Panel System
- Spatial Navigation and Mapping Tools

- Channel UI / UX
  - Messaging
  - Conference
  - Tasks
  - Calendar
  - Docs, Spreadsheets
- Asset Module SDK & Templates

- PLAN MVP Testing

Hardware integration and testing

A new PLAN installation includes:

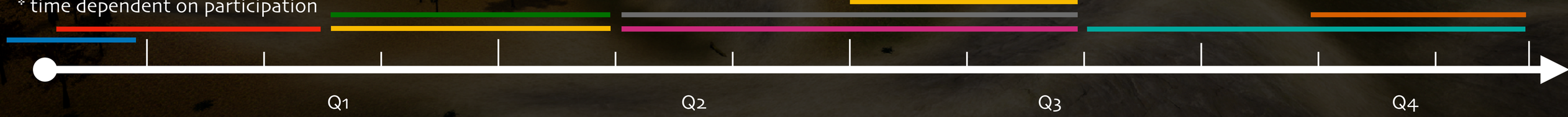
- Community Genesis
- Preinstalled Spaces
- Expanding inventory of Channels
- Infrastructure to develop instruments, templates, and modules

- Distribution:

6 platforms, App & SDK

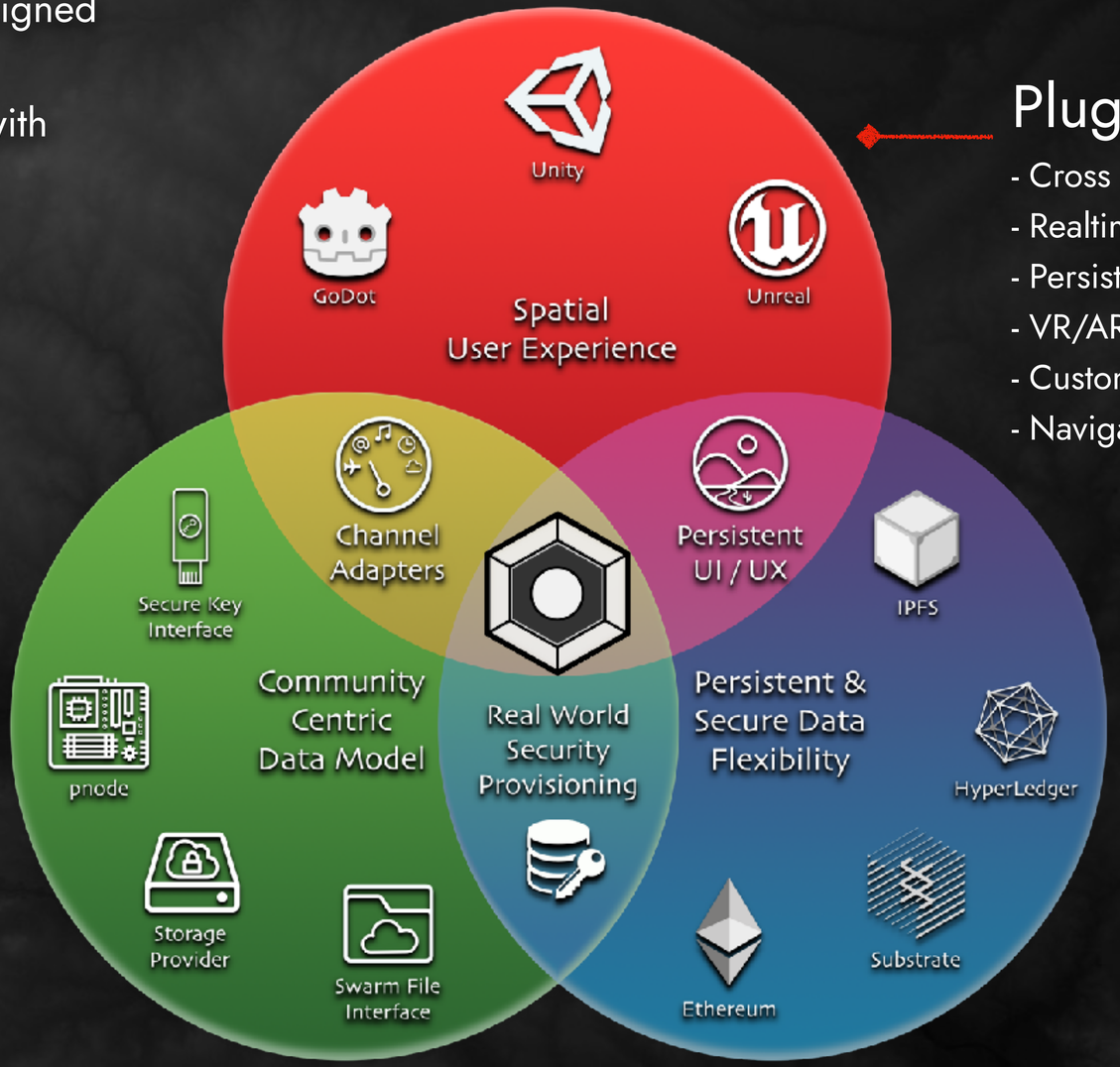
- Mac, Win, Linux, iOS, Android, Unity Asset Store
- Fundraising and outreach with contributing networks
- Focus on regenerative agriculture and accessibility

* time dependent on participation



Components of PLAN

A complete and integrated system designed for community-centric organization, persistent & secure data, and paired with cutting edge 3D interfaces.



Pluggable Client Interface

- Cross platform 3D engine
- Realtime collaboration
- Persistent interface
- VR/AR/XR, CAD ready
- Custom scenes, modules, and templates
- Navigate spaces within spaces

P2P Data-Model

- Community centric permissions
- P2P Files, media, and content server
- Supports public and private channels
- Secure data services

Extensible Channels & Adapters

- Enable data visualization & collaboration
- Talk, notes, task & supply management
- Geo-location & tagging

Pluggable Data Storage Layer

- Distributed data store & archive
- Secure pluggable encryption
- “Inflates” onto any device
- Built for scalability & persistence
- Pluggable DLT infrastructure
- Future-proof upgradability

External platform integrations are for example purposes only, and are not required.

PLAN Software Design Principles

A community-centric, peer-to-peer collaboration suite that ensures:

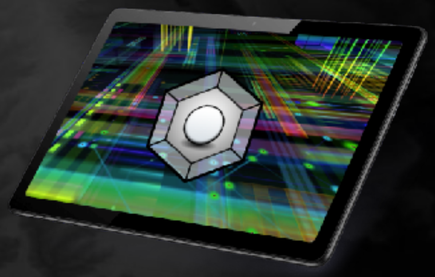
Total Data Ownership

Community-Centric Permissions

Off-grid First Operation

Usability and Accessibility as a Core Focus

Total Data Privacy, Real-World Security Provisioning



Native 3D Interfaces “on the metal”

Gatekeeperless Infrastructure & Interfaces

Modular & Pluggable Components

Tools for Data & Infrastructure Redundancy

Hardware Agnostic Open Source Flexibility

Use-Cases:

Emergency Response

Real-time, off-grid capable C3 systems.

501c3 Organizations

Collaborate and manage your team and projects.

Private Networks

Pluggable and adaptable for any network.

Civic Institutions

Community governance with transparency & encryption.

Science & Education

Collect data in the field, write reports, share files.

Systems Resilience

Architecture, Engineering, and Construction

Content & Data Stewards

Archival security that is reliable and redundant.

Business & Land Development

Deploy 3D worlds to manage your enterprise.

Engineering Future Resilience

PLAN Systems is a solutions oriented non-profit developing invaluable communications infrastructure for people. We work with sponsors and partners to achieve our roadmap milestones. All contributions go to support the PLAN codebase, core development, and initiatives derived from our charitable purpose.

Core Development Supports

- Science & education networks
- Non-profits & civic organizations
- Privacy & accessibility networks
- First responders & humanitarian support
- Regenerative systems: food, water, power
- Historical preservation

Our Technology Services

- Custom Application Development
- Spatial Mapping and Logistics Planning
- 3D Content and Multimedia Design
- Infrastructure Engineering
- Technology Solutions Consulting
- Hardware / Software Integration

PLAN Design Principles Compared

Software Platform(s)	Classification	Total Data Privacy	Total Data Ownership	Community Centric Permissions	Data & Infrastructure Redundancy	Off-Grid First	Usability and Accessibility Focused	Production Ready / Mature	Native Spatial UX	Spatial UX App Support	Hardware Agnostic	Pluggable	Gatekeeperless	License Model	Fee Model
PLAN	Distributed OS & Swarm (p2p)	✅	✅	✅	✅	✅	✅	❌	✅	✅	✅	✅	✅	GPL	Free
Linux	Device OS	✅	✅	✅	❌	✅	✅	✅	❌	✅	✅	✅	✅	GPL	Free
Android	Device OS	✅	✅	✅	❌	✅	✅	✅	❌	✅	✅	✅	❌	Apache 2.0	Free
Windows	Device OS	✅	✅	✅	❌	✅	✅	✅	❌	✅	✅	✅	❌	©	Per Seat + Features
macOS	Device OS	✅	✅	✅	❌	✅	✅	✅	❌	✅	❌	✅	❌	©	Hardware
iOS	Device OS	✅	✅	❌	❌	✅	✅	✅	❌	✅	❌	✅	❌	©	Hardware
iCloud	Personal Cloud + Services	❌	❌	❌	✅	❌	✅	✅	❌	❌	❌	❌	❌	©	Freemium / Sub.
MS Office 365	Productivity Suite & Cloud	❌	❌	✅	✅	❌	✅	✅	❌	❌	✅	✅	❌	©	Freemium / Sub.
G-Suite, Google Drive	Productivity Suite & Cloud	❌	❌	✅	✅	❌	✅	✅	❌	❌	✅	✅	❌	©	Freemium / Sub.
Slack	Team Messaging + Services	❌	❌	✅	✅	❌	✅	✅	❌	❌	✅	✅	❌	©	Freemium / Sub.
Amazon Web Services	Web Infrastructure Stack	❌	❌	✅	✅	❌	❌	✅	❌	❌	✅	✅	❌	©	per Volume
FB, Twitter, Instagram	Social Media / Feed-Follower	❌	❌	✅	✅	❌	✅	✅	❌	❌	✅	✅	❌	©	Freemium / Ads
Discord, Telegram	Team Messaging + Files	✅	❌	✅	✅	❌	✅	✅	❌	❌	✅	❌	❌	©	Free
Salesforce	Enterprise CRM	❌	❌	✅	✅	❌	✅	✅	❌	✅	✅	✅	❌	©	Per Seat Subscription
Google Maps	GeoSpatial Data &	❌	❌	❌	✅	❌	✅	✅	✅	❌	✅	❌	❌	©	Freemium / Data Fees
Third-party Email Service	Messaging Service	❌	❌	❌	✅	❌	✅	✅	❌	❌	✅	✅	❌	©	Freemium
Signal, Wickr	Messaging Service	✅	✅	❌	✅	❌	✅	✅	❌	❌	✅	❌	❌	©	Free
Mastadon, cabal	Messaging Service (p2p)	❌	✅	✅	✅	✅	✅❌	✅	❌	❌	✅	✅	✅	mixed	Free
Self-hosted Email	Messaging Protocol	✅❌	✅	❌	❌	✅	❌	✅	❌	❌	✅	✅	✅	n/a	n/a
IRC	Messaging Protocol	✅	✅	✅	n/a	✅	❌	✅	❌	❌	✅	✅	✅	n/a	n/a
Beaker + Dat	Web Infrastructure Stack	✅	✅	✅	✅	✅	❌	✅	❌	❌	✅	✅	✅	MIT	Free
IPFS	File Sharing Protocol	✅	✅	❌	✅	✅	❌	✅	❌	❌	✅	✅	✅	MIT	Free
FalconView + BFT	GeoSpatial Integrated Feeds	n/a	✅	n/a	✅	✅	❌	✅	✅	✅	❌	✅	❌	U.S. DoD only	U.S. DoD only
Unity, Unreal, CryEngine	3D Engine (AAA)	✅	✅	✅	❌	✅	❌	✅	✅	✅	✅	✅	❌	©	Freemium / Fee Cap
GoDot, OGRE	3D Engine (FOSS)	✅	✅	❌	❌	✅	❌	✅	✅	✅	❌	✅	✅	MIT	Free
Hyperledger	Enterprise DLT	✅	✅	✅	✅	✅	❌	✅	❌	❌	✅	✅	✅	Apache 2.0	Free
Holochain, Substrate, IOTA	Instanced DLT	✅	✅	✅	✅	✅	❌	❌	❌	❌	✅	✅	✅	Apache 2.0	Free
Ethereum	Global DLT (Pure Distributed)	✅	✅	✅	✅	❌	❌	✅	❌	❌	✅	✅	✅	mixed	Free
EOS, Cosmos, Polkadot	Global DLT (Validated)	✅	✅	✅	✅	❌	❌	❌	❌	❌	✅	✅	❌		

Design Principles & Definitions:

Total Data Ownership: Systems and components must provision for assured data accessibility + data non-deniability + data portability

Total Data Privacy: Only the designated owner(s) have permissions authority and cryptographic access to their data

Community Centric Permissions: Supports nesting hierarchies; create/manage accounts + local authority + flexible (user-oriented) governance

Off-Grid First: Data accessible, usable, updatable all without the Internet; self-contained

Usability and Accessibility Focused: Open protocols that are adaptable for accessibility, usability, and intended for users of any technical skill level

Spatial UX App Support: Integrated/full realtime 3D graphics capability with the full power of the workstation at your disposal

Hardware Agnostic: No technical, legal, or arbitrary restrictions on the number or types of devices

Pluggable & Extensible: Extend functionality natively; designed and offered with the intent that others can freely grow, enhance, or fork the platform

Gatekeeperless: Full source code may be used, modified and distributed—commercially or non-commercially. No third-party needed to deploy, access, or manage data. No costs, fees, or significant dependencies

Distributed Data & Infrastructure Redundancy: Integrated data backup/replication and recovery; concurrency of components, lack of a global clock, and tolerates independent failure of components

Bottom line: the design values of any system show up in both the functionality and limitations of the system. This chart helps us compare industry wide tradeoffs through the lens of our design principles

Prepared by:
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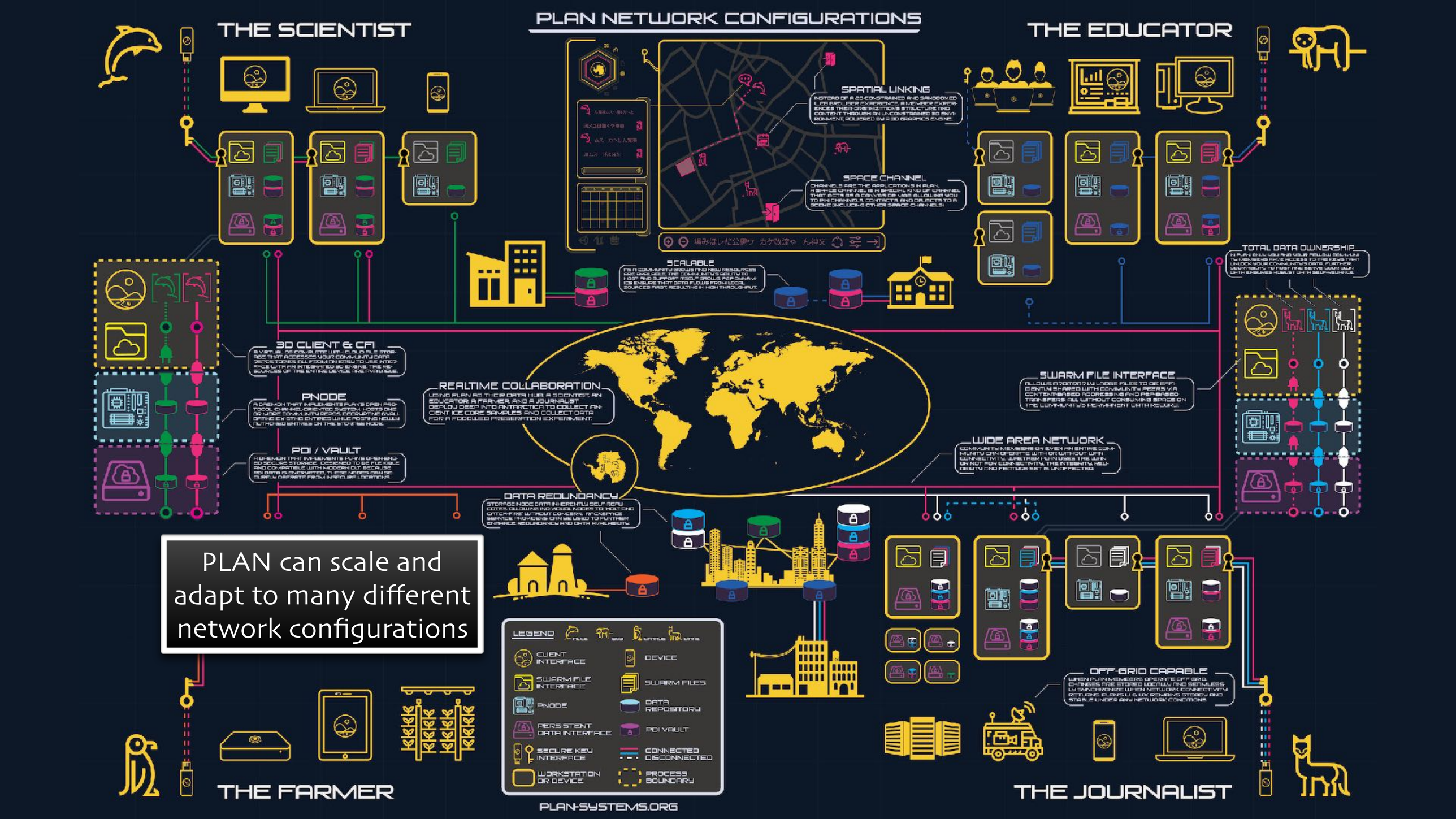
www.plan-systems.org


PLAN NETWORK CONFIGURATIONS
THE SCIENTIST
THE EDUCATOR
THE FARMER
THE JOURNALIST
SPATIAL LINKING
SPACE CHANNEL
SCALABLE
TOTAL DATA OWNERSHIP
3D CLIENT & CFI
PNODE
PDI / VAULT
REALTIME COLLABORATION
SWARM FILE INTERFACE
WIDE AREA NETWORK
DATA REDUNDANCY
OFF-GRID CAPABLE
PLAN can scale and adapt to many different network configurations
LEGEND
CLIENT INTERFACE
DEVICE
SWARM FILE INTERFACE
SWARM FILES
PNODE
DATA REPOSITORY
PERSISTENT DATA INTERFACE
PDI VAULT
SECURE KEY INTERFACE
CONNECTED DISCONNECTED
WORKSTATION OR DEVICE
PROCESS BOUNDARY
PLAN-SYSTEMS.ORG

PLAN Systems

Technology 501(c)(3) - 83-0636676
5900 Balcones Dr., Ste 100
Austin, TX 78731-4298
512-553-8644

We are proud to formally introduce you to PLAN.

The systemic failure of Big Tech communications systems during multiple national emergencies prove the necessity of a more robust information infrastructure for group forming networks and communities. Led by two U.S. Air Force and Navy veterans, were developing software tools and instruments for multimedia distribution, group collaboration, experiential education, and archival knowledge. We aim to shape the technology landscape in a way that prioritizes privacy, data ownership, and accessibility over big tech dependency.

PLAN is designed to support mission critical applications including: secure communications, swarm file sharing, digital media broadcasting, and the ability to take your data with you anywhere. We cordially invite you to learn more about this innovative technology. If you are interested in supporting this important effort, there are few ways you can contribute:

$2.1m Capital Raise - A capital raise of $2.1M will move PLAN 3D into its next stage of development with a 14 month benchmark based roadmap. Funds will go to pay for software engineering and development operations resulting in a Beta launch of the PLAN 3D client.

Sponsor, Partner, and Developer Referrals - We have a multi-discipline team, and growing a wide network of supporters and service partners. To start, we can provide custom implementations, full-stack application development, and capabilities that position organizations for the coming spatial intranets. Sponsor organizations and service partners are invited to work with us in developing these important tools. Let's schedule a time to connect, and feel free to refer an organization or initiate a proposal here.

If PLAN is not a good fit for you personally, please consider connecting us with other's in your network to support the development of community-centric technology and digital privacy tools usable by non-technical people.

Please share this message far and wide with your friends and colleagues so we can fuel the development of peer-to-peer encryption and collaborative systems that we own. We can help each other become tangibly more secure and resilient as a society.

Warm Regards,

Brandon D. Wallace, President
Drew O'Meara, Chief Architect
PLAN-Systems.org
info@plan-systems.org

PLAN Systems
Stonehenge
The FARM
Project Chat
Planning Session #1! Meet here at 11:11am!
5/1/2021 1:50:38 PM
Ok perfect! I love spatial planning with you!
5/1/2021 1:51:06 PM
90m
PLAN-Systems.org
Email: info@plan-systems.org | Ph: 512-553-8644
Enter text...