

Feature Platform Proposal: "Aetherium"

The Living World Engine



Aetherium Platform

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Prepared For: Flam Production Management Team

Prepared By: Lasya Priya, Product Analyst Intern

Notion Link: Please visit the site to view the proposal

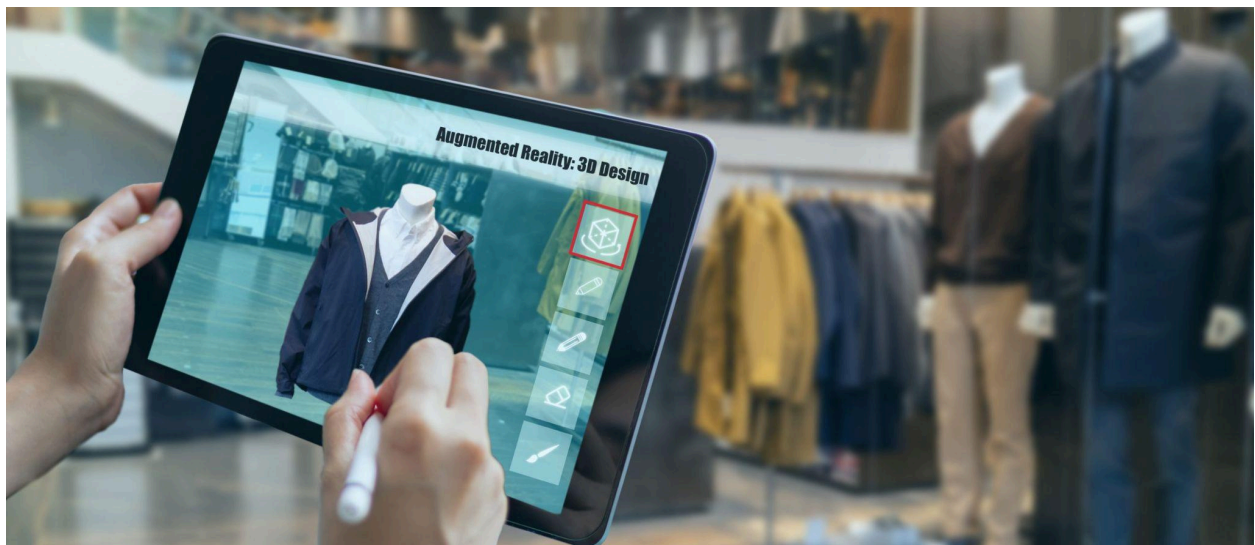
<https://coherent-dugout-3c4.notion.site/Feature-Platform-Proposal-Aetherium-The-Living-World-Engine-1ff7279ab99a80928648eab3b21c0c9f>



🎯 1. The Big Picture: More Than Just AR Moments – A Smart, Shared MR World

Right now, our AR app creates cool, one-off experiences. But what if we could go deeper? This proposal is for "**Aetherium**," a new platform that will let us build a mixed reality (MR) world that's always on, smart about its surroundings, and built for working and playing together. Think of Aetherium as upgrading our app from a simple AR viewer to a window into a dynamic digital layer that blends seamlessly with our physical world.

We'll start with two key pieces: "**Echo Objects**" (our way of letting users leave persistent digital notes in the real world) and a "**Contextual Intelligence Engine**" (the brains to make it all feel relevant). Later, this will grow to support things like "**Shared Reality Canvases**" for teamwork and "**Dynamic World Storytelling**" for user-created adventures. This isn't just a new feature – it's how we'll get users truly hooked, find new business opportunities, and really stand out from the crowd.





2. Why We Need This: Making Digital and Real Worlds Click

The world of mixed reality is growing up. People and businesses want more than just cool demos; they want real value that fits into their lives. Here's what's holding things back:

- **Lost & Disconnected Info:** Digital info tied to real places is often hard to find when you need it, or it just vanishes when you close the app. This slows everyone down.
- **Just Watching vs. Doing & Sharing:** Too many AR experiences are passive. The real magic happens when people can create and learn together in a shared digital space.
- **AR That Doesn't "Get It":** Often, AR doesn't really understand what it's looking at, who you are, or what you're trying to do. This means it can't be truly helpful or adaptive.
- **Making it Stick:** To keep people using MR, it needs to become a go-to tool for everyday tasks and social stuff, not just a novelty.



3. Introducing "Aetherium": The Building Blocks for a Smarter World

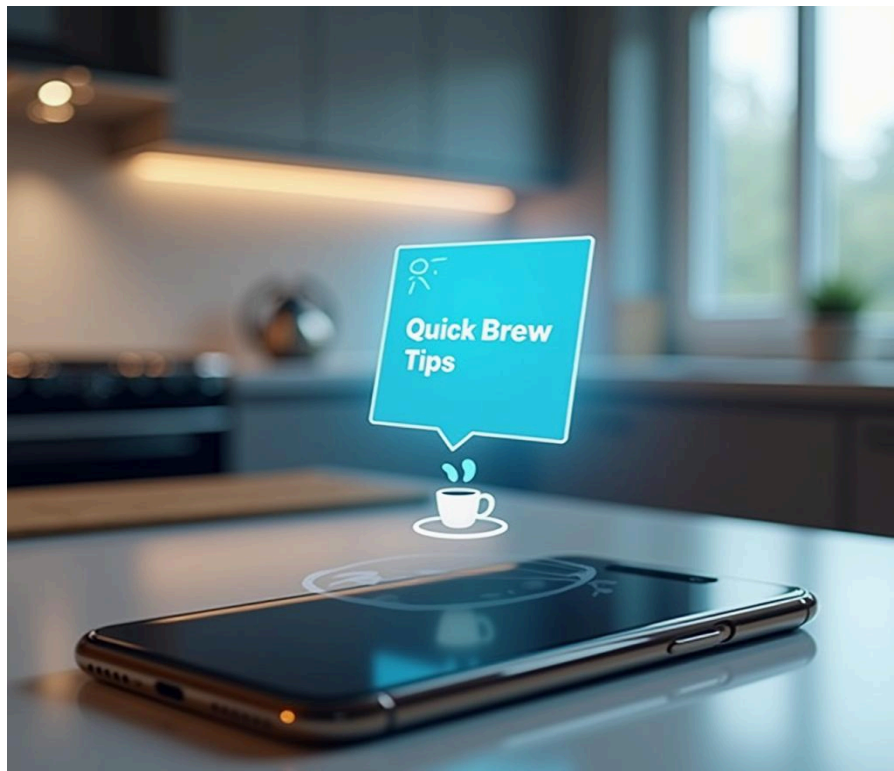
Aetherium is planned in layers, with each new piece unlocking richer experiences.

Phase 1: Getting the Basics Right & Adding Smarts

Component 1: Echo Objects (The Anchors of Aetherium)

- **The Idea:** Letting users attach all sorts of digital content (text, audio, video, 3D items, interactive bits) to real places and things.
- **What's New for the Platform:**

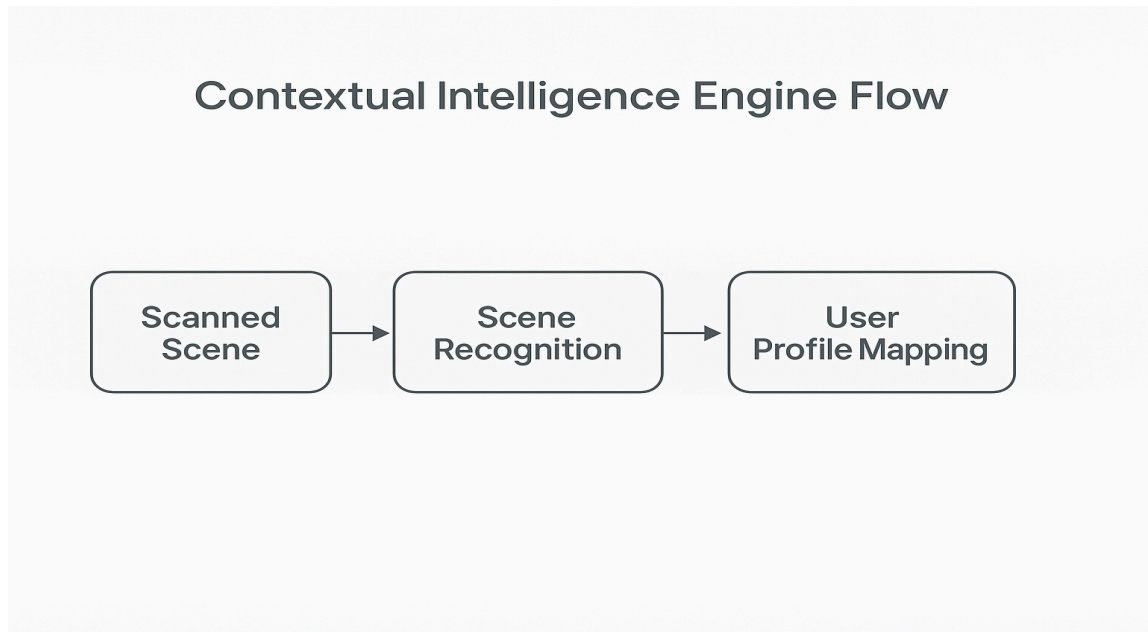
- **More Content, More Interaction:** Think mini web pages, polls, or things that trigger based on other actions (e.g., "Show this note only after Task A is done").
- **Better Sharing Controls:** Solid permission settings for teams, projects, and public/private stuff, including who can do what.
- **Works Offline & Syncs:** Keeps working even with spotty internet, then syncs up.
- **Track Changes & Go Back:** See older versions of Echoes, which is key for teamwork and instructions.



Component 2: Contextual Intelligence Engine (The Brains of Aetherium)

- **The Idea:** An AI layer that understands the user's surroundings (using smart scene recognition, object ID, text reading), their profile, and what they're trying to do, to make Aetherium super relevant and helpful.
- **What It Will Do:**
 - **Smart Discovery:** Show the most important Echoes based on where you are and what you're doing.

- **Automatic Links:** Suggest relevant Echoes or prompt you to create one.
- **Connects the Dots:** Understands how different Echoes and objects relate.
- **Personal Touch:** Shows Echoes in a way that makes sense for *you*.



Phase 2: Collaborative & Dynamic Experiences

Component 3: Shared Reality Canvases (Collaborative MR Workspaces)

- **The Idea:** Allow groups of people to create and interact with complex, persistent MR info in the same physical space, together in real-time or on their own time.
- **For Example:**
 - **"Echo Blueprints" (For Business):** Construction or manufacturing teams could see full-scale 3D models, data, and notes overlaid on the real site.
 - **"Tactical Overlays" (Specialized):** For emergency crews or defense.
 - **"Creative Studios" (For Creators):** Collaborative art, event planning.



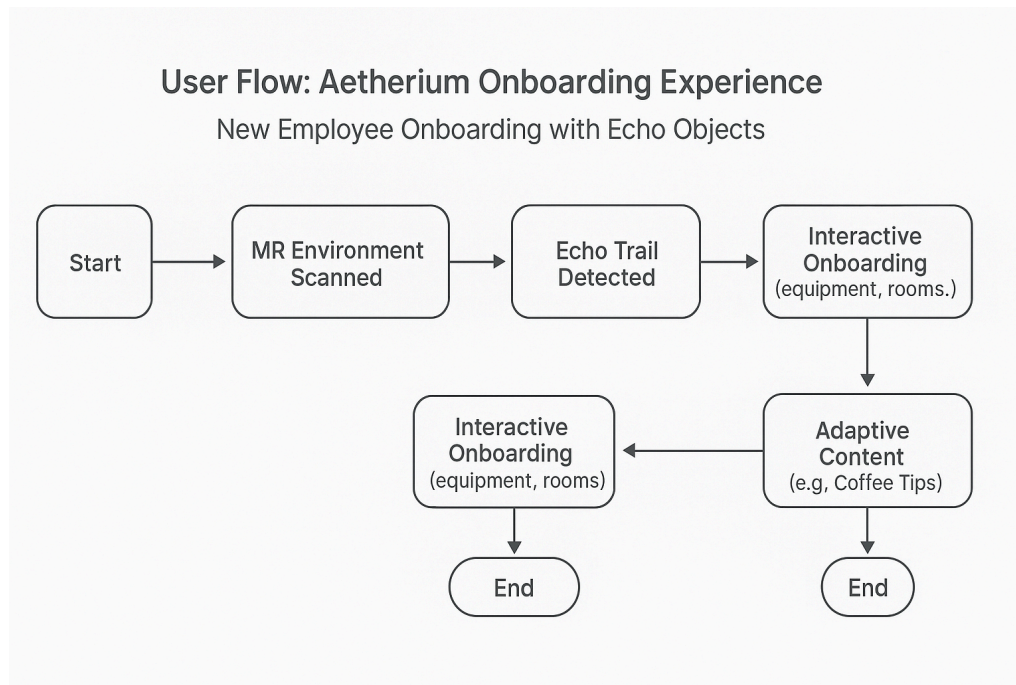
Component 4: Dynamic World Storytelling & Guidance (Emergent Narratives)

- **The Idea:** Tools to create and find linked Echoes that form stories, guides, or games tied to real-world places.
- **For Example:**
 - **"Echo Trails":** Interactive tours, scavenger hunts, step-by-step guides.
 - **"Living Memories":** Group or family stories linked to specific locations.
 - **Smart Learning Paths:** Educational Echoes that adapt as a student learns.

4. How This Changes Things for Users (Illustrative)

- **Today (Basic AR):** Point your phone at a poster, a 3D model pops up. Cool, but that's it.

- **With Aetherium (Echo Objects + Smarts):**
 - *New Employee Onboarding:* Point your phone around the office. Aetherium shows an "Echo Trail" for new hires. Tapping it starts a guided tour with Echoes explaining equipment, meeting rooms (with live availability from a calendar), and where teams sit. The system notices you paused at the coffee machine and later shows an Echo with "Quick Brew Tips."
- **With Aetherium (Shared Reality Canvases):**
 - *Engineering Team on Factory Floor:* Wearing MR headsets, the team sees a full-size digital overlay of a new robot arm being installed (an "Echo Blueprint"). They can walk around it, attach "Echo Objects" with questions or change requests directly onto virtual parts, and see updates from remote colleagues in real-time. These notes stay there for the next shift.



5. Our Edge: Why This Puts Us Ahead

- **Keeps Users Coming Back:** Moves us from a novelty to a must-have tool.
- **Stronger Together:** The more people use it and add content, the more valuable it becomes for everyone.

- **Gets Smarter Over Time:** All the data helps our Contextual Intelligence Engine learn and improve.
 - **New Ways to Make Money:** Opportunities for business subscriptions and premium features for everyone.
 - **Foundation for What's Next:** This is the OS for our MR future; maybe even an SDK for other developers.
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6. How We'll Roll This Out & Where We're Headed

This is a big project, planned over several years.

- **Year 1: The Foundation**
 - First version of Echo Objects (private and simple sharing).
 - Early version of the Contextual Intelligence Engine.
 - Focus on a few high-value uses for everyday people and one pilot for businesses.
 - **Year 2: Teamwork & Growth**
 - Launch the first version of "Shared Reality Canvases."
 - Improve Echo Objects and the Contextual Intelligence.
 - Introduce the first version of "Echo Trails."
 - **Year 3+: Building an Ecosystem**
 - Mature all parts of Aetherium.
 - Look into APIs/SDKs for other developers.
 - Connect with other platforms and smart devices (IoT).
 - Explore how this could work across both AR and VR.
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7. Advanced Risks & Strategic Considerations

- **Technical Complexity & Scalability:**
 - *Mitigation:* Smart partnerships, invest in R&D, roll out in phases, test thoroughly.
- **Privacy & Security in an Always-On World:**

- *Mitigation:* Build with privacy first, have clear policies, use encryption, give users control, use AI ethically.
 - **Managing Content & Avoiding "Digital Graffiti":**
 - *Mitigation:* AI moderation, ways for the community to flag issues, clear terms of service, filters, maybe tiers for trusted creators.
 - **Market Adoption & Behavioral Shift:**
 - *Mitigation:* Solve real problems, pre-load useful Echoes, make it fun.
 - **Interoperability & Standards:**
 - *Mitigation:* Design it to work with other systems in the future, join industry talks.
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8. Refined Success Metrics for Aetherium (Beyond Basic Stats)

Beyond individual feature metrics, we'll track platform health:

- **Aetherium Adoption Rate:** % of MAU actively creating/interacting with Aetherium content.
 - **Useful Content:** Average number of useful Echoes people interact with in active spaces.
 - **Collaborative Intensity:** For Shared Canvases: How many active sessions, average number of people per canvas.
 - **Ecosystem Growth (Long-term):** Number of developers, number of other services connected.
 - **Business Impact:** Time saved, errors reduced for enterprise users.
 - **User Happiness:** What people are saying, Net Promoter Scores for Aetherium.
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9. Call to Action: Investing in the Future of Reality

"Aetherium" is more than a set of features; it's a strategic investment in our company's leadership in the evolving mixed reality landscape. It promises to create unparalleled user value, defensible competitive advantages, and new revenue streams. This requires a

dedicated cross-functional team, significant R&D commitment, and an organizational willingness to embrace a long-term vision.

We urge the leadership to commit to exploring Aetherium, starting with:

1. A focused **discovery phase**.
2. **Technical prototyping** of core Echo Objects & Contextual Intelligence Engine.
3. **Deep user research** to validate the most impactful initial applications.

This is how we stop just showing users AR, and start letting them live in a truly mixed reality.

