Pilot Name of the Project:

Kolibri Yggdrasil AI Routing Network (KYARN)

What is KYARN?

KYARN is a global, decentralised network that combines:

- **Yggdrasil** for secure, cryptographic-based routing.
- **Artificial Intelligence (AI)** for real-time traffic optimisation.
- **Starlink satellite Internet** for global, high-speed connectivity.

The goal is to create a fast, secure, and reliable network for worldwide use.

Why Are We Building This?

1. **Centralised networks have limits:**
   - Dependence on a few large providers leads to risks like censorship, outages, and monitoring.
2. **Connect underserved areas:**
   - Starlink allows reliable Internet access even in remote regions.
3. **Better traffic management:**
   - AI improves how data moves across the network.
4. **Internet 4.0-ready:**
   - We're setting the stage for next-gen standards for devices and services.

What Are We Aiming For?

With KYARN, we want to:

- Enable global node connectivity, even in isolated locations.
- Ensure consistent performance everywhere.
- Provide developers with tools (API) to add AI-based routing to their applications.

Timeline

Reference release in 1 year with key phases:

1. **Research & Planning** (2 months): Study Yggdrasil, plan modifications, and design integration.
2. **Prototype Development** (6 months): Combine Yggdrasil, AI, and Starlink into a working system.

3. **Testing** (4 months): Deploy in select regions and fine-tune based on real-world feedback.

Budget

Estimated: $1.5–2 million USD

- Software Development: **$800,000**
- Starlink Equipment/Costs: **$500,000**
- Team Salaries: **$400,000–600,000**

Team

Technical:

- 1 Project Manager
- 4–5 Yggdrasil/Network Developers
- 2–3 AI Specialists
- 2 Infrastructure Engineers

Administrative:

- 1 Project Manager
- 1 Finance Specialist

QA & Support:

- 2 Test Engineers
- 1–2 Security Specialists

What Makes KYARN Unique?

1. **Yggdrasil Customisation:**

   - Tailored routing protocols with telemetry APIs and static nodes.
2. **AI-Driven Optimisation:**

   - Real-time path predictions and adjustments based on network performance.
3. **Global Connectivity via Starlink:**

   - Stable connections, even in remote areas.
4. **Scalability & Security:**

- Designed for global rollout with encryption and DDoS protection.

Next Steps

Let us know if you need:

- Detailed specs for any section.
- Clarification on budget or team roles.
- A roadmap tailored to your input.