# Web3 **Spatial** 🛰️

**KERNEL Fellowship**
Genesis Block

"Nobody wants to fuck the planet over - they just get paid to do so."

It makes sense to cut down the rainforest.

# Web3  X  Spatial Finance

# Spatial Finance

"the integration of geospatial data and analysis into financial theory and financial practice."

**Dr Ben Caldecott**
Founding Director
Oxford Sustainable Finance Programme

# The Problem

🛰️

💰 Incentive structures limit climate action.

# The Opportunity

💡 Redesign these incentive structures using **Web3** technologies.

# The Stakeholders

🕴️ Policymakers

🚧 Asset managers

🤑 Investors

☂️ Insurers

💚 Consumers

# The Tech

🌍 Satellites / Earth Observation / IoT

🖥️ Machine Learning

🤫 Enclave computing

🔐 Smart contracts

# The Plan

🖋️ **Research:** write papers exploring the opportunities of Web3 spatial finance.

🔌 **Experiment:** build functional micro, meso and macro prototypes of spatial finance applications

# The Scale - Micro

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**S&P Global**

"One new trend that has emerged is that of lenders tying interest rates to sustainability targets and overall ESG performance scores."

S&P Global

# The Scale - Meso

"Brexit gives us the opportunity to design the world's first ever net zero aligned emissions trading scheme that can and should require firms to acquire significant emissions reductions using next gen carbon markets."
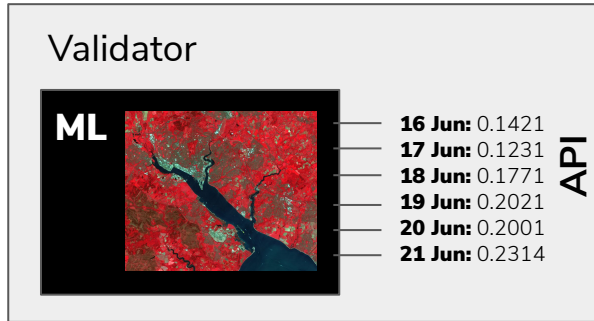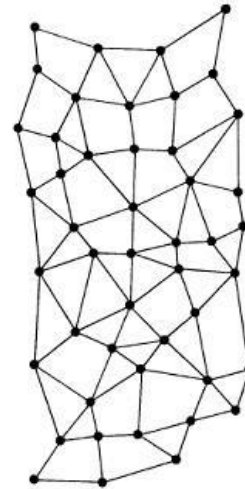
Dr Ben Caldecott

# The Scale - Macro

"Spatial finance approaches and methods have huge potential to improve the engagement with sovereign debt issuers and for assessing countries environmental risk and opportunities for recovery. "

WWF

# An Idea



Validator
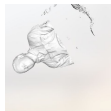
ML

16 Jun: 0.1421
17 Jun: 0.1231
18 Jun: 0.1771
19 Jun: 0.2021
20 Jun: 0.2001
21 Jun: 0.2314

API

oracle

→ cash transfers
→ $\triangle$ interest rate
→ conditional loan disbursements
→ ESG auditing

# The Team

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👨 **João M**  Full stack dApp developer. Researcher.

✏️ **John IV**  Web3 strategist. Spatial data developer.

🙋‍♀️ **Security Engineer.**

**Designer. Finance.**

🙇‍♂️ Legal. Business Development.

**Questions? Feedback?**

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