

Junto #1

Freely speak.

Get to know each other.

Robin. German. Business. Learning to code. Combining business, technical, human aspects. Potential to have a huge impact.

Jared Childers. Student. SF State. Transferring to NC. Taking remainder of the year off. Interested to do a lot of learning on his own. Jump on topics he finds interesting - blockchain was one. A bit of data science, AI. Jack of all trades.

Mark. Software developer in Bay Area. Relatively new to crypto and blockchain. Developed an educational tool for dapps. Loves the space. Idea has been on his mind for a while. A way for incentivizing people to do sustainable / regenerative actions. Cleaning up planet, mitigating climate change. Hangs out with lots of hippies. Lots of “neoluddites” - someone who resents technology because they think technology is allowing people to destroy the planet at an accelerated rate. People are less interested in the latest app and more interested in clean air, clean water etc. Wants to add that he notices how indigenous people have a natural relationship with the Earth. Some people can communicate with plants and trees - knowledge that we as Westerners don't have. Wants to include indigenous people. Building tools for them, for the regenerative ecology movement.

Will: Environmental health - works on a GIS team at a large public health team in Atlanta. Background is in business and management consulting. Exposed to environmental and public health over the past few years. Difference between web 2 and web 3 is enablement. This enables everyone an opportunity to contribute.

Jennifer. Syracuse New York. Studied Urban Planning, always interested in mobility. Worked at a company that downplayed digital disruption, use of data to help with business intelligence. Taught herself how to code, got into a new company. Went to Toronto for a hackathon, learned blockchain and fell in love - how blockchain could solve some issues she encountered in supply chain. Potential taking spatial data that people aren't using enough and helping with the environment. She believes that people are good in general. Lots of opportunity to help curb climate issues we have. Was thinking about launching a startup related to customs and international trade and logistics. Back burner but wants to use expertise.

Joao. Background in industrial management. Working in a bank, made him want to work with blockchain. Self taught blockchain developer. Portugal - joined a research team to develop two projects (group buy marketplace, energy DEX market). What captivates him - the intersection of

web3 with analytics and machine learning. Also spatial component that has the potential to add new use cases of open finance to Ethereum. Opportunity to add new, green open finance building blocks. Something people can relate to. Have an impact on the globe instead of being something that is just virtual.

What is your vision?

Mark: How can we pay people to plant trees, and continue to pay interest or dividends as long as the tree stays alive? How to prove I was somewhere at a certain time? How can we prove that the tree is still alive and growing? He knows REGEN Network - they say it is possible. Thought we would be the ones working out how to do that ... if we can draw up blueprints. Will: Idea makes sense. Technical stuff is difficult. Proof of Location protocol is under development. Perhaps something we could build, or prototype with the 7 weeks we have.

Will: It interested him to do a bit of research. Background in finance, background in environment, hadn't heard about spatial finance. Doesn't necessarily need a functional app at the end.

Robin: The potential of the idea is making it hard to focus. Can't just ask companies nicely to clean up behavior - they need to have a financial incentive. On finance side - lots of pieces need to be put together. Look at poorer countries - problems with pollution, not enough money. Take concepts out there like Gitcoin CLR - by taking donations, create a system to provide people a goal-linked to universal basic income. Tech to track it - say we want the streets to be clean. If incentive is high enough, a garbage collection system might emerge. Tying it back to the tech for the vision of spatial finance is not that different. Interested in diving deep and learning, and coding as much as possible. Take a look at the people profiting from damaging the environment, vs people who are living there. People might be way smaller.

Jared: Wanted to build something that utilized IoT and decentralized networks. Likes to look at things for what it is at the most basic level, then build from abstract thought. Blockchain is replicated state that everyone reaches consensus on. Humans are users on the network. But what is to stop a device from being a user? IoT could be considered a user on the network. All the transactions change the state. Track which data is being sent. Adds security and transparency to how things are flowing across. Could be cool to create an ecosystem that is self-sufficient in a way. All acting independently, but for the greater good. You know how Elon Musk has the Tesla Powerwall - could be cool to tokenize all the utilities in your home - water would be tokenized as an asset. Say all devices could all communicate - a bank of energy tokens, appliances use tokens to do a task. Main goal is to reduce the energy. Swarm intelligence for autonomous vehicle fleets. 5G will improve machine to machine connection.

Will: Had been thinking more on meso and macro scale - you're thinking about local (micro) ecosystems - like a smart home.

Thinking about the idea of local efforts, regenerative behavior. A few weeks ago there was a diesel spill in the Arctic. Because it's diesel and it's cold, worried that the fuels may persist. Is there a way to incentivize clean-up, restoration? Calculate damage that was done to determine regeneration necessary, then incentivize stakeholders to participate?

Mark: We should be prepared to play devil's advocate. Solve one problem But might create others. "Wicked problems". One concern: a lot of humans are electrosensitive - literally get sick if they're in WiFi fields. Personally a proponent of conscious, contained use of technology. Technology can be good, but can also go out of control.

Will: "We can't assume that everyone is like us."

Joao: Vision - to validate, we need to start very small. Start not with a commercial intent, but a not-for-profit intent to reach people. Small but interesting use case to pique the interest of people who might benefit. Likes both commercial and non-commercial angles. Wants to start with non-commercial angle. Open, decentralized plays to that well. But - he sees commercial opportunity - for example, probably the autonomous vehicle play. Def leaning towards non-profit. In this he sees at least 2-3 sub-angles we can take. Big corporations - incentivizing them to not pollute or deforest etc. Smaller, individual people, smaller incentives. Third one - related to governments. Also have an interest in this - green debt, some countries are doing more efforts towards sustainability than others. How do we prove that with something continuous? Measuring progress towards the Paris goals.

Robin: Alex said there might be an opportunity to do it in a more simple way - just use GPS rather than IoT x satellites etc. Tie to presidential campaign rallies, social distancing, etc?

Joao: Adding / closing: FOAM is not using satellite data ... maybe we start with a use case that isn't using satellite data - using location provided with mobile networks.

Challenge: attributing action.

Logistics

Different small tracks we want to investigate.

Form teams around these projects.

Create cross-functional teams. Discussion would be more focused, and more fruitful.

Result might be code, research, design.

General communication on Slack

Project-specific communication on Github. Issues.

Roles:

People focused on their track or project of interest.

A few of us coordinating effort so they are all glued together.

Someone working on community.

Build a map

A brainstorming exercise

Mapping out our ideas of what we see

Start: a general, high level idea. A central point.

Let people unpack their thoughts.

Go as far into the topic as we can.

Capture use cases.

Then: Systematically go through use cases.

Ask who, what, how, why about each.

Plan

Build track: develop a dapp framework for spatial finance. Off-chain data sources → oracle → smart contracts. A bit agnostic to the data sources and target contracts. Front end?

Research track: deep dive into use cases; user research.

Note taking (João)

Start of the meeting:

- Empowerment of the individuals
- Get to know each other

Notes on people - 10m - 30m

Robin

- In crypto since 2015
- Wants to deep dive into solidity
- Super interested in the project
- Wants to have an opportunity with regard to a technical challenge

Jared

- Student / underground
- Taking the year off until 2021
- Self-learner
- Wants to learn, not an expert

Mark

- Software dev in SF | CA
- New to crypto and blockchain
- Loves the space, has a project to help people build dApps
- Is passionate for sustainable actions, climate control, has been with these ideas in mind
- Sees himself as building tools for indigenous people

William

- GIS team, large environmental health agency on Atlanta Georgia
- Background in business/ consulting
- Sees the project as enabling everyone to contribute to sustainability

Jennifer

- New York
- Background in urban planning | Has been in a logistics position at 3PL
- Self taught programmer - Currently Software Development
- Has been into hackathons, has experience

VISION

Mark: Decentralized way of rewarding someone for planting a tree. Earn interest for the tree-planter. How would you prove that you were at a certain geocoordinate at a certain time? How can you prove that with satellite technology? How to deal with the additional challenge of having decentralized technology. Proponent of contained and limited usage of technology. You may use technology to solve one problem but may create another.

William: Proof of location protocol - attempt to establish the identity of a person in a decentralized network. Maybe this is something we can prototype for the next 7 weeks. Wants to do research. Thinking about local efforts, regenerative behaviour. A couple of weeks there was a diesel spill in Arctic. They worry the diesel may persist because its cold. Calculate the damage that was done and then determinate the incentives needed to participate

Robin: Many different ideas. Likes the corporate aspect. Holding companies accountable for their environmental targets. Started to think about poorer countries and their problems about pollution. Thought about Gitcoin and other projects and created a system to provide people a sustainability goal linked to Universal Basic Income. If the incentive is high enough, people will go out and clean the streets. Wants to code but doesn't mind the research part. For companies you'd need high incentives to change their behaviour, but for smaller individuals the incentive would be much smaller. - > Two set of users at least

Jared: Build something to utilize IoT and a decentralized network. What's to stop IoT from being a user in a Network, it adds a degree of security of transparency compared to human input. Create an ecosystem that is self-sufficient in a way. Tokenize the data that we collect (spatial data), for e.g. tokenize carbon. The IoT aspect could be important here. Self driving cars are going to built with swarm intelligence.

Jennifer: Interested with spatial data. Educate people about blockchain data.

<https://miro.com/welcomeonboard/fJVlv12bRTdz0oog3RAdW2cgG23pe7Sc1YHLSDHtFGiebF9JEtQWIH4XcOaVQ7KB>

