



# SPACE DECENTRAL



Connecting engineers, scientists, and future astronauts  
to devise and fund next-generation space initiatives.

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Content in this deck is subject to change.

# Problem

## SPACE PROGRAMS AND THEIR FUNDING METHODS ARE NOT DEMOCRATIC.



National space programs have been removed from public guidance and input while being insulated from any private third-party evaluation.



At the same time, these program's funding are mostly determined at the whims of politicians. The collective, global space budget for governments has declined every year since 1966.



# Solution

Space Decentral is a decentralized autonomous space agency aiming to reinvigorate the push for space exploration, with global citizens in control.



## DECENTRALIZED

No single corporation or nation will be responsible for its management

## AUTONOMOUS

Member control over how work is directed, how decisions are made, which projects to fund

## SPACE AGENCY

Strategically develop a space plan to action with meaningful impact

# The Space Decentral Network

Social network for space and our first mission control center

Collaborate on  
Space Missions

Share Research for  
Peer Review

Incentivize Open  
Source

Crowdfund  
Large-scale Projects

The screenshot displays the Space Decentral website interface. At the top, the navigation bar includes the logo, links for CHAT, FORUM, TEAM, CROWDSALE, and WHITE PAPER, along with notification and profile icons. The main header features a large image of Mars with the title "Martian Spring" and a subtitle "14". Below this, a description reads: "Mars has captured humanity's imagination since prehistory - and now it may be in our grasp." The interface includes a navigation bar with tabs for Overview, Crew, Discussion, and Files. The main content area is divided into two sections: Summary and Discussion. The Summary section contains a paragraph about Mars exploration and a list of near-term goals. The Discussion section features a post titled "Mars Reconnaissance Flyer Project Proposal" with a description of the proposal and its rationale.

**SPACE DECENTRAL** CHAT FORUM TEAM CROWDSALE WHITE PAPER

**Martian Spring**  
14  
Mars has captured humanity's imagination since prehistory - and now it may be in our grasp.

Overview Crew Discussion Files

**Summary**  
Mars has captured humanity's imagination since prehistory - and now it may be in our grasp. Notions of human exploration and settlement are being taken more seriously than ever. Taking the next giant leap forward starts with small steps here on Earth. We intend to take an active role in enabling these steps. There are countless paths to reaching Mars.  
Some near term goals are as follows:  
- Raise the technological readiness levels (TRL) of Environmental Control and Life Support System (ECLSS) technologies  
- Investigate potential of in-situ resource utilization (ISRU) and closed/regenerative ECLSS technologies  
- Determine fundamental engineering requirements and implementation strategies for exploration and settlement  
- Determine quality-of-life requirements and implementation strategies for

**Discussion**  
**Mars Reconnaissance Flyer Project Proposal**  
Proposal: A Martian free-flyer for surface exploration and site survey operations. Rationale: It has been earlier studied by a number of groups that Martian exploration could be well-served by aerial surveys of interesting locations on the planet. One drawback to most concepts have been the large aerosurfaces re...  
1 1  
Apr 23rd





# Pilot Space Projects

Two upcoming space projects will be researched on the network

## Coral

Space Cooperative-lead space mission to design, develop, test, and ultimately demonstrate the use of equipment for lunar in-situ resource utilization to manufacture components for the construction of full-scale lunar infrastructure.

### Team

Andy Gonzales  
29 yrs at NASA  
Systems Engineer

Brent Hilscher  
15+ yrs mining  
engineering.

Donald Barker  
27+ yrs aerospace,  
ex-NASA

John Paterson  
20+ yrs aerospace  
ex-NASA,  
Lockheed

## MarsSuit

UC Berkeley, cross-collaborative project lead by Larry Kuznetz, to come up with a spacesuit that will allow expeditionary crews to work effectively on Mars.

### Team

Larry Kuznetz  
40+ yrs NASA,  
currently UC  
Berkeley, ex-Apollo  
space suit scientist

Charlie  
Camarda  
NASA Astronaut  
40+ yrs at NASA

5+ universities,  
including MIT &  
Stanford

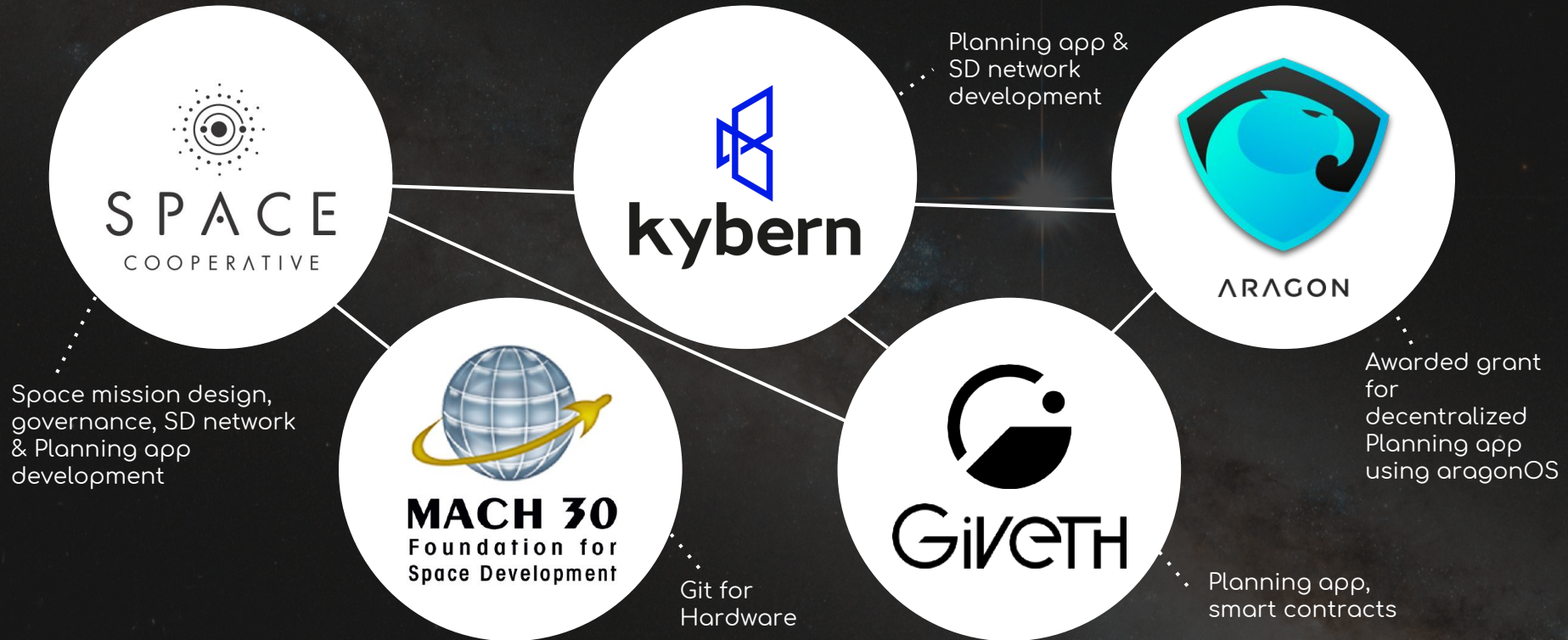
Boris Rubinski  
UC Berkeley ME  
professor (35+ yrs  
academia)



Space Cooperative  
Team & Advisors

# Space Decentral DAO in the making

Organizations contributing to the roadmap...





# Two Token Ecosystem



## Faster Than Light

- Transferable ERC-20 token, purchased via ICO
- Stake FTL to receive member governance rights
- Used to prioritize programs (e.g. Moon vs Mars)
- Proposals have fees paid in FTL



## Space Decentral Network

- Intellectual contributors will be rewarded with SDN tokens
- Rewards engine will proportionally distribute FTL to SDN holders
- SDN are non-transferable and never sold

# How are ideas crowdsourced?

## 1 BROADCAST IDEAS





# Technology Components



## Space Decentral

Distributed Engineering Tools

Enable everyone to intellectually contribute to a new global space agency in a permissionless manner.



## Aragon

Governance & Dapp Framework

Resource allocation and work prioritization will be openly organized with encoded operational procedures.



## Ethereum

Blockchain

Facilitate trust with auditable work, open source smart contracts, and transparent finances.

# Roadmap

Q1

2019

*ICO, Launch  
Aragon DAO  
on Mainnet*

Q4

2019

*Project  
Management  
Release*

Q4

2020

*Systems  
Engineering  
Release*

Q2

2019

*Wiki, Aragon  
Integration*

Q2

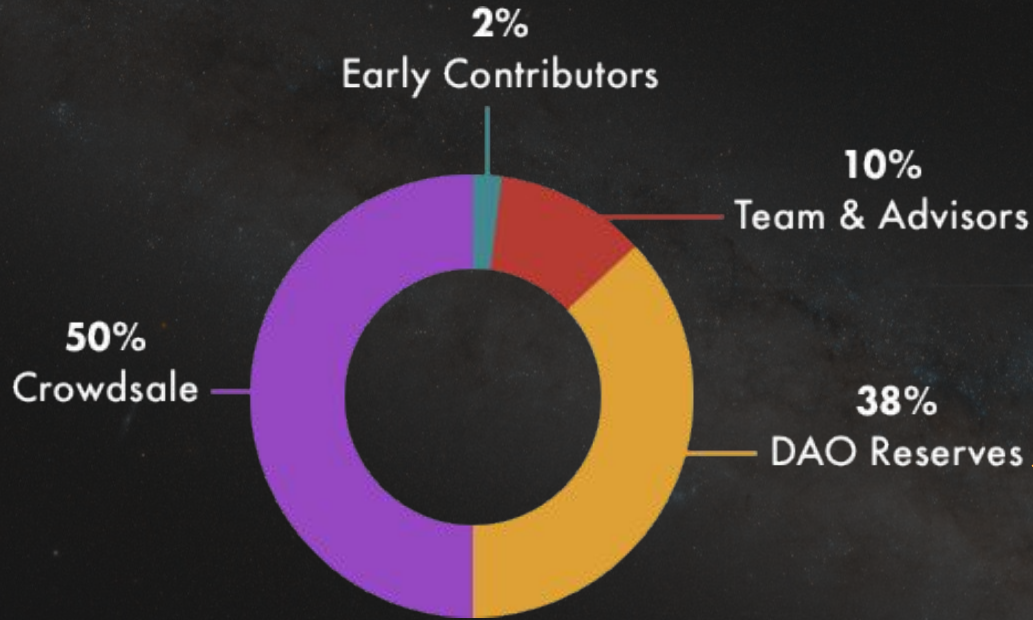
2020

*Git for Hardware  
Release*

Tentative release schedule



# FTL Token Allocation



To build a thriving ecosystem, the Space Decentral DAO will transparently distribute 38% of the token supply over at least 4 years to those who contribute to the network's strategic plans, projects, and knowledge base. Additionally, these reserves can be sold to fund space missions.

Total of 299,792,458 tokens

*...the speed of light*

# Funding Milestones

SOFT CAP

\$6m

PRE-DAO

\$12m

HARD CAP

\$50m

TECHNOLOGY ROADMAP  
DEVELOPMENT

ALLOCATED BY DAO VOTE, STARTING IN 2019

We will develop the *technology roadmap* to enable decentralized space missions.

Purchasing the FTL is the DAO's first vote to fund the "IT department" and genesis knowledge base.

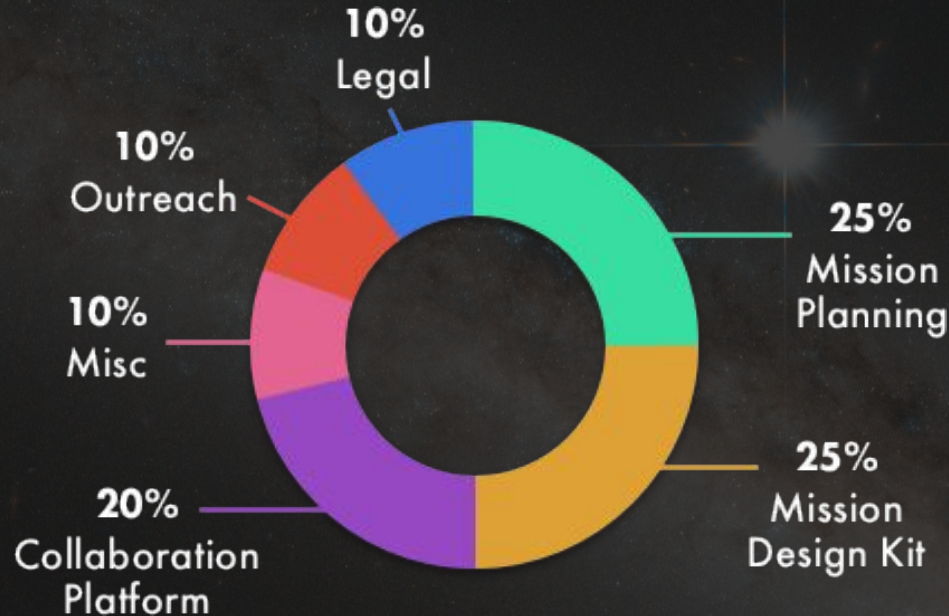
This will be used to fund missions and enabling technologies.

The first actual space mission must be selected by the DAO for this space agency to be truly decentralized.



# Use of Revenue

How the technology roadmap funding raised from the token generation event will be allocated...



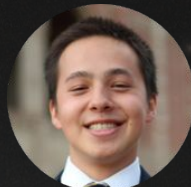
# Team



**Yalda Mousavinia**

Strategic Lead

Previously Sr. PM at Oracle, PM for 10+ yrs, BS in Mechanical Engineering (UC Berkeley) & Astronautical Engineering Cert (UCLA).



**Patrick Donovan**

Engineering Lead

Seasoned in structural design. NASA recognized for Mars ISRU concept. BS in Civil Engineering (UCLA) & EIT certified.



**Dr. Marc Cohen**

Mission Architecture Lead

Impassioned, licensed architect devoted to space architecture. Previously at NASA Ames (26 yrs), Northrop Grumman (4.5 yrs).



**Radek Zasiadczyk**

Tech Lead

Multi-skilled full stack developer, senior system administrator, DevOps. Previously at Oracle (13 yrs).



**Kevin Siegler**

Software Engineer

Experienced electromechanical engineer. BS & MS in Mech. Engineering (Northwestern). Expected MS in CS (Georgia Tech).



**Suzi Bianco**

Mission Architect

Seasoned architect. BS Architecture (Federal Fluminense), MBA (Fundação Getúlio Vargas). MS in Space Architecture (U. of Houston).



# Advisors



**Brent Sherwood**  
Program Manager, JPL

Space architect with 29 years of professional experience in the space industry. He has been at NASA JPL for 12 years, where he is Program Manager for planetary mission formulation. He funds and coaches teams that create and propose mission concepts for scientific exploration.



**J. Simmons**  
President, Mach 30

Founded and serves as the President of Mach 30, a non-profit dedicated to hastening the advancement of humanity into a spacefaring civilization through the development of open source spaceflight hardware. J. received his doctorate in Space Systems Engineering from the Air Force Institute of Technology.



**Paolo Tasca**  
Executive Director, Center  
for Blockchain at UCL

FinTech economist specializing in P2P financial systems. Advisor on blockchain for the EU Parliament and the United Nations. Founder and Executive Director of the Centre for Blockchain Technologies at University College London.



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