

A Blockchain for Borderless Collaboration

Spanner, noun

- 1. A household tool to tighten and **BOLTs**
- 2. A blockchain protocol that spans across communities



Why Decentralized Collaboration?

Blockchain, a consensus enforcement engine, **guarantees execution** of consensus of any collaboration via Smart Contract.

This brings **unparalleled advantage** to decentralized collaboration over real world contracts that are subject to argument and failure to enforce.

No Dispute

Smart Contract will strictly execute the consensus. No enforcement failure. No middle ground for dispute.

No Censorship

On the system level, Blockchain runs on decentralized technical architecture and will never be stopped. On the user level, all users' transactions will not be blacklisted.

Low-cost Execution

Smart Contract is executed by increasingly cheaper machines, while real world contract is executed increasingly more expensive human resources.

The Future is Borderless

Decentralization Polarized. For anything, by anyone, at anyscale - borderless

For Anything

Any blockchain activity on-chain or cross-chain

Real world activities via off-chain connection

By Anyone

Open and simple for anyone to use.

Trust-free collaboration guaranteed by Blockchain.

At Anyscale

From small groups to global organizations with millions of participants.

From ad-hoc communities to permanent organizations.

Introducing Spanner's Core Technology: DPO

Decentralized Programmable Organization

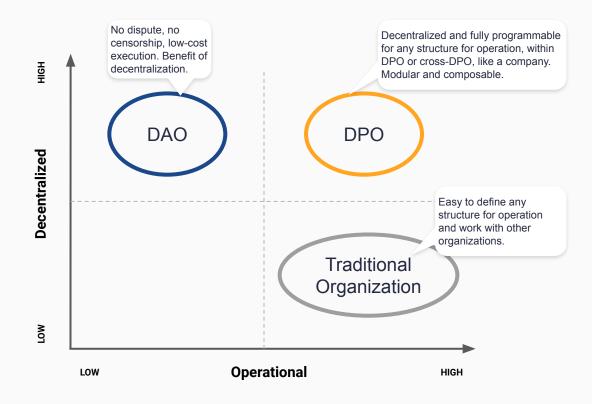
DPO is a technology to enable **borderless collaboration** on Blockchain. It can be programmed with any structure and all interactions are transparent and verifiable.

It is a new form of digital organization.

DPO - the Best of Both Worlds

DAO runs on Blockchain based on a proposal-and-voting mechanism like shareholder votings, which is ineffective for most operations. DAOs need a structure to make operational decisions..

DPO is designed with full programmability to define any structure for operations within the DPO and cross-DPO like how companies work with other companies.



DAO: Decentralized Autonomous Organization DPO: Decentralized Programmable Organization

DPO Features

"The beginning of wisdom is to call things by their proper name"

Decentralized **Execution**

Having the benefit of running on Blockchain. No censorship. No Dispute. Low-cost execution.

Programmable Structure

Program any operational structure for the goal. Perform any on-chain, cross-chain and off-chain actions at ease.

Organizational Behaviour

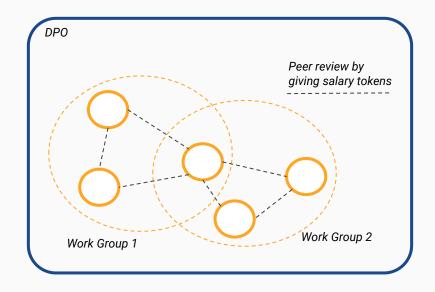
DPO can be independent and interdependent. The cross-DPO capability makes DPO modular and composable, behaving like a company.

DPO Use Case I: Decentralized Payroll

Bottom-up peer-review payroll determination for decentralized organizations.

Challenges: Current top-down payroll and appraisal processes are inefficient and does not fairly compensate staff contribution. And it can not scale to a large group of workers.

DPO solution: Program a <u>bottom-up peer review</u> system. Everyone is allocated some salary tokens and give to peers. Higher quality work will result in more tokens. All salary token distribution are transparent and verifiable.

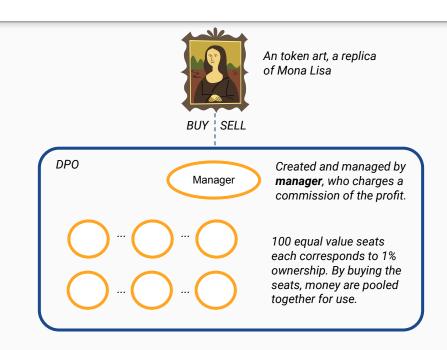


DPO Use Case II: Digital Art

Crowdfunding to purchase art pieces to share its ownership and future appreciations

Challenges: Purchasing art pieces can be expensive. Organizing people to raise funds in order to purchase expensive art pieces is difficult. Ownership and profit from sales are hard to distribute without middlemen which presents its own risks.

DPO solution: Program a crowdfunding mechanism with DPO for <u>secure</u> storage of funds, <u>transparency</u> of operations, and <u>guaranteed</u> settlement based on smart contracts. The shares are <u>liquid</u> and can be partially/fully transferred to others. Also directly applicable to Non-Fungible Tokens (NFT)!



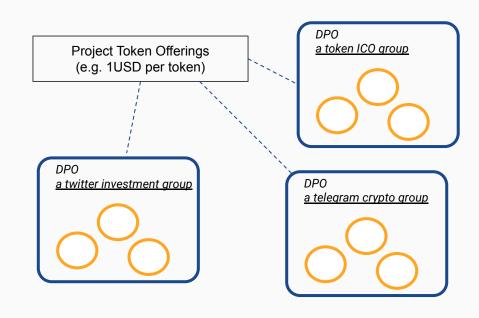
DPO Use Case III: Token Launchpads

A scalable form of decentralized token offerings

Challenges:

- Not open to everyone, as participants must possess minimum amount of Launchpad Tokens.
- Not open to every project, as project pre-sales often have high entry requirements.
- No transparency in platform's operations (e.g. token misuse, high cost and fraud)

DPO solution: Projects create token offerings open for taking. Community curators (big or small, any type like youtube or twitter) can create a DPO for the token offerings and set incentives parameters (like commission and referral fee). No business process needed between community and project. DPO participation is open to everyone without assumption.





Why Decentralized Crowdfunding?

A safe and versatile way to participant in crypto

1 Very versatile. E.g. token offering, NFT, mining and more.



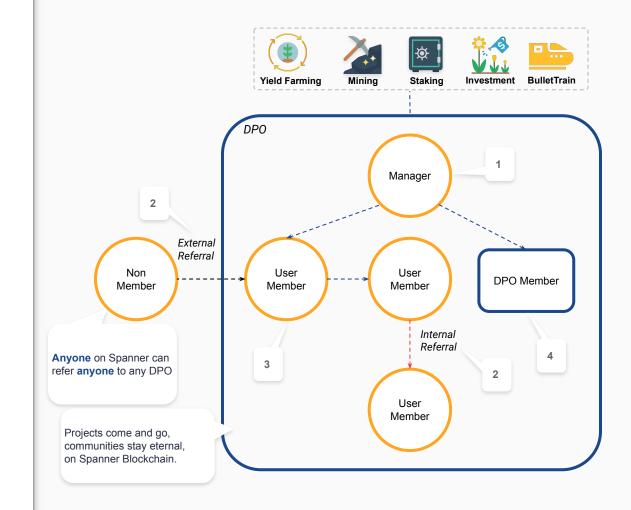
Blockchain makes Crowdfunding safe. No dispute, no censorship, low-cost.

DPO V1 Structure

A DPO is created to crowdfund for **anything**. All received rewards are distributed to its participants according to their contributing roles.

Anyone can participate

- 0 cost to create a DPO. Configure the reward structures as a <u>Manager</u>, and grow your DPO.
- 2. 0 cost to be <u>Referrer</u>. Earn by referring members to DPOs.
- 3. Earn rewards directly by becoming a <u>User Member</u>.
- Create a DPO to join another DPO as a <u>DPO Member</u>, known as **DPO** Composition.
- Manager earns management fee.
- Referrers earn referral bonus.
- Members are the owner of the DPO and earn yields.

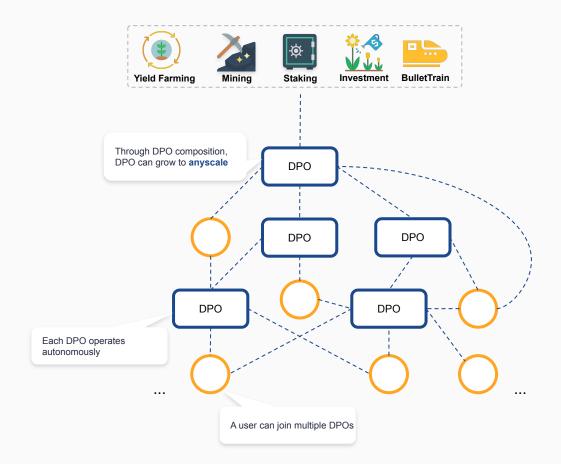


DPO Open Market

DPO operates independently like an individual user. A DPO can choose to crowdfund for a target by itself, or join another DPO as its member. Like a open market.

Benefits:

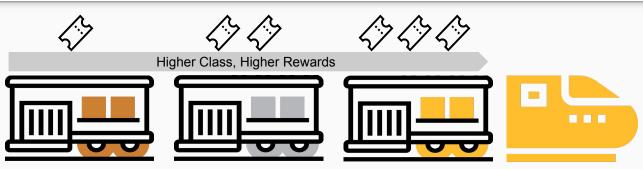
- DPO Composition: DPOs can pool their funds together to become a bigger DPO for more expensive assets. DPO can grow to anyscale.
- 2. **Bottom-up Pricing**: Users or DPO are more inclined to join DPOs with lower management fees. The market will eventually decide the best and fairest management fee.



BulletTrain - The first DPO V1 Application

A BulletTrain is a token reward express for participants

A BulletTrain has multiple **TravelCabins** of different classes.
Higher classes give higher rewards but is more expensive to buy.



A simple 3-step BulletTrain journey

- 1 Users buy a cabin for a BulletTrain ride.
- 2 They get rewards during the train ride.
- They get their payment back when the ride ends.

Why Projects Use BulletTrain?

7
One Step Deployment

Create TravelCabins of different prices and token rewards for purchasers.

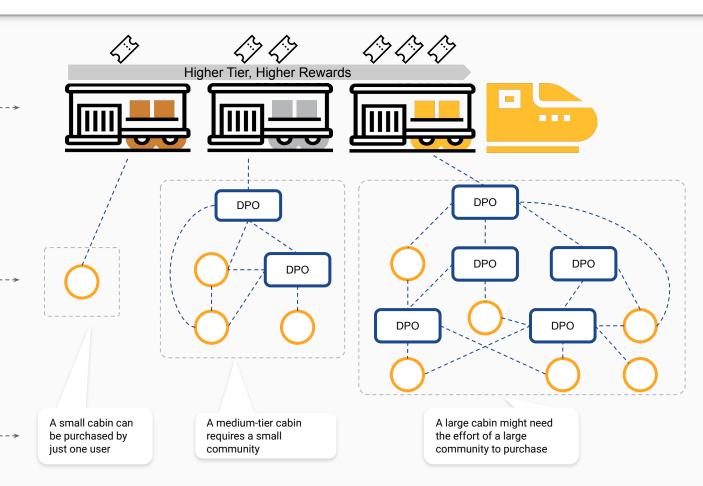
O Zero Marketing Cost

Anyone can use DPO to organize a crowdfund to earn rewards. DPO communities are **self-organized** and incentivised by TravelCavin rewards.

OO ...

Infinitely Scalable

DPO composition allows a crowdfund of **anysize**.

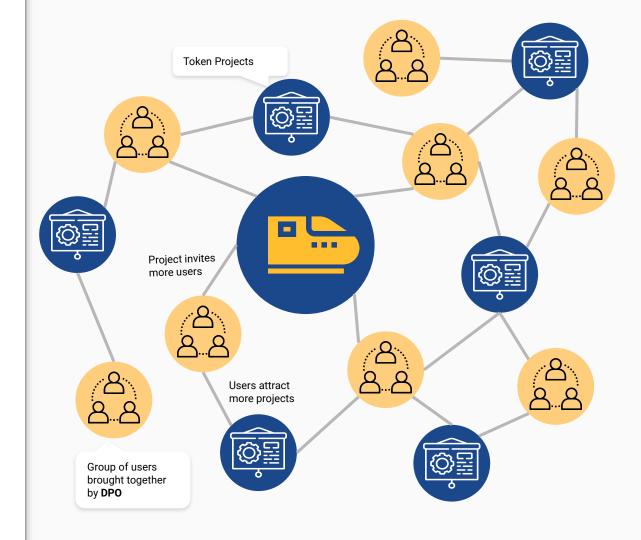


BulletTrain and Compounded DPO Growth

BulletTrain as an effective viral growth method will create a network effect for the **Spanner Blockchain**, which will generate compounded value growth.

DPO Network Effect: The more DPOs there are, the more attractive for projects to launch a BulletTrain. New projects will attract more DPOs and add compounded value to Spanner ecosystem.

Learn more: Spanner and Web3





From Digital Money to Digital Organization

<u>Chain</u>

Ethereum

<u>Token</u>

ETH

Spanner

<u>Token</u>

Chain

BOLT

Asset Standard

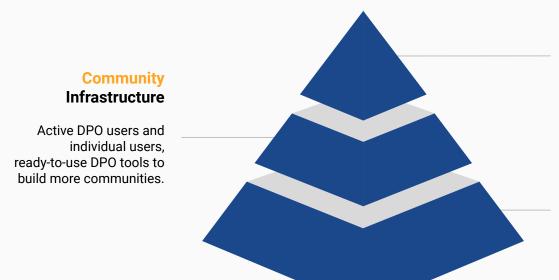
ERC20, ERC721

Organization Standard

DPO

Spanner Open Ecosystem

Reliable technology and community infrastructures, ready-to-use



BOLT

Economy

Join the ecosystem and use Spanner blockchain with BOLT. Easy-to-use, low-cost, fast and reliable.

Technology

Infrastructure

Spanner Blockchain, Cross-chain bridges and Off-chain Oracles. Providing pervasive connectivity.

Spanner Blockchain Architecture

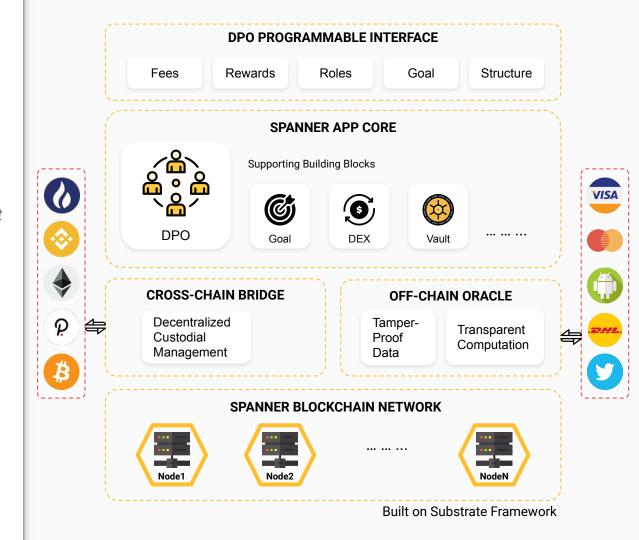
DPO Technology Focus

On-chain - Core DPO feature development **Off-chain** - Oracle Integrations for real-world data

Cross-chain - Integrations to target third-party blockchain assets

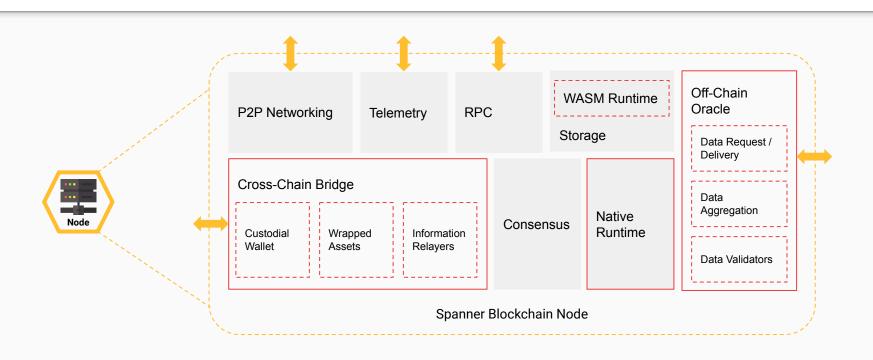
Full-stack optimization for Economies of Scale. Technical comparative advantages.

Powered by token **BOLT**



BlockChain Node Architecture

Under the Hood



Our Roadmap

Developing a future for mainstream decentralized organizations



Token BOLT

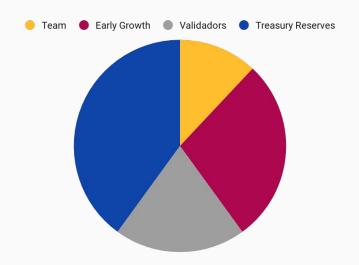
BOLT is the only asset that gives you access to the limitless power of DPO. The more DPOs are used, the more valuable BOLT becomes.

Bolt, noun

- 1. A metal object applied to fasten things with Spanner
- 2. Native token of **Spanner**

BOLT Distribution

BOLT is the fuel for Spanner Blockchain

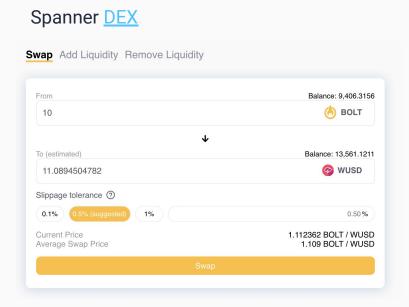


- Stable: Token sales (0%), fully bootstrapped.
 No sales, no major holders, higher stability.
- Deflational: 1,000,000,000 BOLTs Total Issuance.
 No more minting.
- Community Governed: <u>Token Economy</u> model is governed on-chain proposals

Team (12%): vesting in 4 years. First unlock in Nov 2021
Early Growth (28%): Used for creating growth incentives like TravelCabins in BulletTrain
Protocol Validators (20%): For Polkadot Parachain slot auctioning or nPoS incentive
Operation Reserve (40%): Treasury usage will be formally governed by proposals

Where to Buy BOLT

Spanner's Decentralized Exchange (DEX): Supported by most crypto wallets.



Supported Wallets

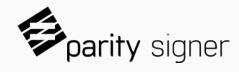
Ethereum Compatible (log into Dapp via Dapp Browser)







Polkadot Compatible







Ecosystems and Partners

Polkadot Ecosystem









Polkadot Mainnet

Kusama Canary Net

Rococo Parachain Testnet

Interoperable Parachain Candidates



Smart Contracts





Tokenized Assets



Supported Wallets











Spanner Recap

Spanner, DPO, BOLT and the future

DPO is a new form of digital organization: DPO is a technology for decentralized collaboration at scale. It gives you the best of both worlds (organizational structure and efficiency of companies and fair and transparent governance of DAOs).

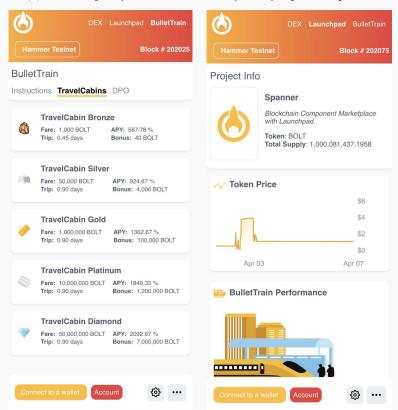
DPO is uniquely powered by Spanner Blockchain: DPO-oriented blockchain architecture, which gives DPO on-chain, cross-chain and off-chain functionalities. Full-stack optimization gives DPOs a leading edge against competitor DAOs.

BOLT is the fuel for Spanner Blockchain: Powers all Spanner Blockchain utility like DPO features, transferring tokens and DEX exchanges.

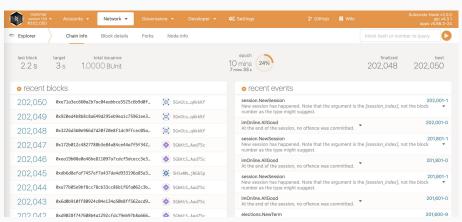
With BOLT, you can unlock limitless collaborative capabilities

Experience Spanner

<u>Dapp</u> - Manage Spanner assets, explore projects & join DPOs

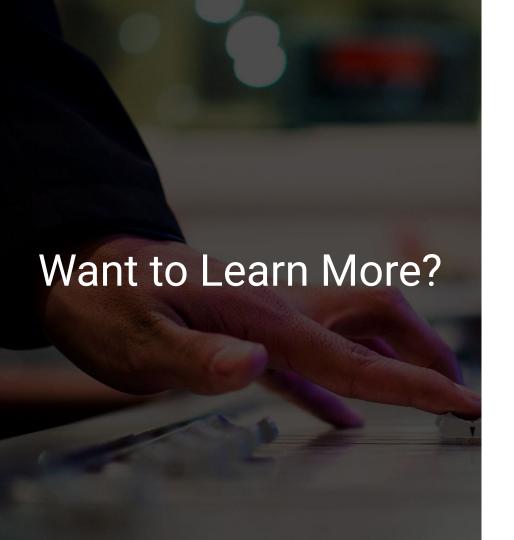


Block Explorer - View the Blockchain in production



Website and Docs - Understand Spanner In-Depth





www.spanner.network

Medium blogs

White Paper as docs

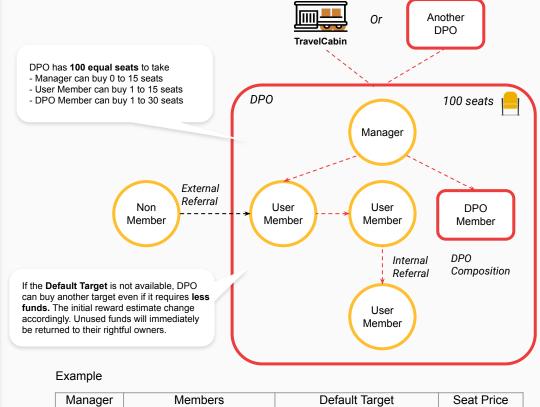
Contact Us: ask@spanner.network



DPO V1 in Spanner BulletTrain

DPO V1 is defined by:

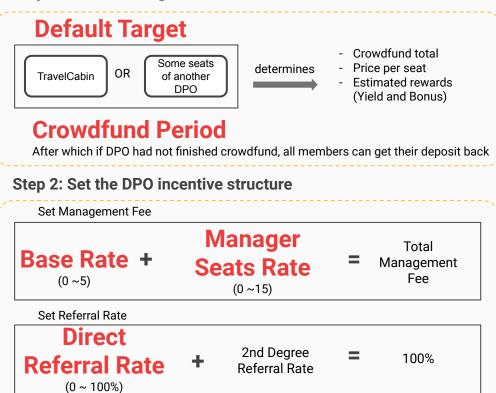
- 1. Goal: buy what before when
 - -what: Default Target (Cabin or DPO).
 - **-when:** Crowdfund period, after which members can refund.
- Incentive: reward for manager and referrer. It defines how to distribute yield and bonus within the DPO.
 - -manager charges management fee from the yield earned, just like how a fund works. The bigger the crowdfund, the more fee to be earned
 - **-referrer** Referral bonus ratio for the referrer and his referrer (2nd degree referrer), within the DPO only.

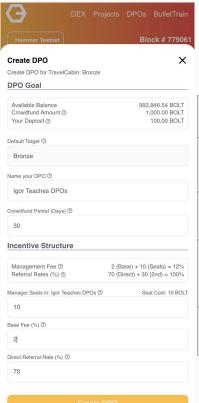


Manager	Members	Default Target	Seat Price
Alice	Bob, Charlie, dpo_2,	TravelCabin (100k BOLT)	1k BOLT

How a DPO Manager Programs a DPO (5 Parts in Red)

Step 1: Set the DPO goal





An DPO example used in the following slides.

J	
Name	DPO_0
Default Target	crowdfund 10,000 token for a Cabin.
Crowdfund Period	30 days
Management Fee	Base Fee (5) + Manager Seats (15) = 20%
Referral Rate	Direct (80%). 2nd Degree (20%)

DPO V1 Lifecycle

CREATED

The first state of DPO. When the crowdfund amount has been met (i.e. all seats filled) within the crowdfund period, DPO becomes **ACTIVE** otherwise **FAILED**.

ACTIVE

Ready to buy the Default Target, or another Target if the default is not available.

RUNNING

When the cabin has been purchased, either directly by a DPO or indirectly through another DPO via DPO composition.

DPO starts to receive bonus and yields as rewards.

COMPLETED

When all rewards have been received and deposits withdrawn by Members.

FAILED

Failed to crowdfund for the target. All funds can be withdrawn and returned to DPO members.

How TravelCabin Rewards Are Released

After a TravelCabin is purchased, the buyer (individual or DPO) can do following things in sequence:



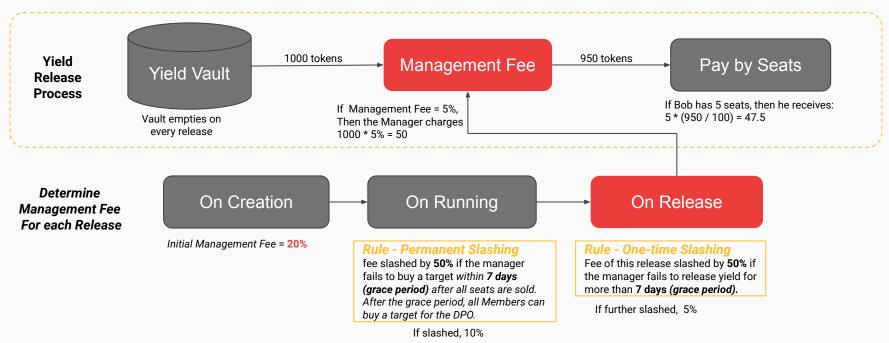
If the Buyer is a DPO, the process is the similar to the above:

But the Yields and Bonuses are distributed internally within the DPO, to its *Manager, Members and Referrers*.

If any of its Members is a DPO, then the Member will distribute the received rewards locally within the DPO.

How DPO Distributes Yields

- 1. Received Yields accumulate in the yield vault overtime and are released batch-by-batch.
- 2. Management Fee is deducted and the remainder goes to the Members respective to their seats.
- 3. Management Fee can be slashed in two situations to prevent the Manager from being sluggish.



How DPO Distributes Bonus: (1) Forming a Referral Structure

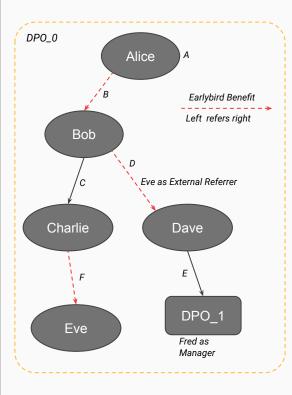
- 1. If a user (e.g. Charlie) arrives at BulletTrain with a referral link from Bob, then Charlie will **always automatically** refer Bob as referrer when he joins a DPO, either individually or by creating another DPO.
- If Bob is a Member of the DPO, Bob will become Charlie's Internal Referrer.
- if not, Bob is his External Referrer.
- Any Member without an Internal Referrer will be assigned one by the Earlybird Benefit Rule.

Rule - Earlybird Benefit

A newly joined member **without** an *Internal Referrer*, will be assigned one (an one-time assignment).

- •If there is no User Member in the DPO so far, the Manager will be assigned.
- Otherwise, the first member in the Earlybird Queue will be assigned. The Earlybird Queue is a first-in-first-out queue for all User Member of the DPO.

Event	Following events happen sequentially	Earlybird Queue
А	Alice creates the DPO_0.	
В	Bob, without a referrer, joins DPO_0. the Earlybird Benefit rule applies and assigns Alice as Bob's Internal Referrer.	Bob
С	Charlies join DPO_0 specifying BOB as his referrer. Bob becomes Charlie's Internal Referrer.	Bob, Charlie
D	Eve introduces Dave to the BulletTrain app. Dave then joins DPO_0 specifying Eve as referrer. Since Eve is not yet a member of DPO_0, Eve becomes Dave's External Referrer. The Earlybird Benefit rule applies and assigns Bob from the Earlybird Queue.	Charlie, Dave
E	Fred creates the DPO_1 to buy 30 seats at DPO_0, specifying Dave as the referrer. Dave is Fred's Internal Referrer.	Charlie, Dave
F	Eve buys 15 seats of DPO_0 with no referrer. The Earlybird Benefit rule applies and assigns Charlie. Note Dave won't be reassigned to Eve even if she is now a member. A missed opportunity for Eve.	Dave, Eve



How DPO Distributes Bonus: (2) Bonus Allocation Based on Referral Structure

Each Member joining the DPO will first receive bonus by seats and then emit some bonus for its referrers to share, by 2 steps. The Member keeps the remaining parts of bonus.

Step 1: Computing Emitted Bonus.

Deposit Amount

X

Cabin Bonus Rate



Emitted

For a User Member, all its deposit counts. While for a DPO Member, only the Deposit of its manager counts.

Cabin Bonus / Cabin Price. Assume Cabin Bonus Rate is 5%

Case <u>User Member</u>: Dave buys 1,000 tokens worth of DPO_0 seats:

Deposit Amount =1.000 tokens

Cabin Bonus Rate

= 5%

Emitted Bonus = 1,000 tokens * 5%

= 50 tokens

Case **DPO Member**: Fred creates DPO_1 (taking 10 seats), which buys 2,000 tokens worth of DPO_0 seats

Deposit Amount

= 2000 tokens * (10 / 100)

= 200 tokens

Cabin Bonus Rate

= 5%

Emitted Bonus = 200 tokens * 5%

= 10 tokens

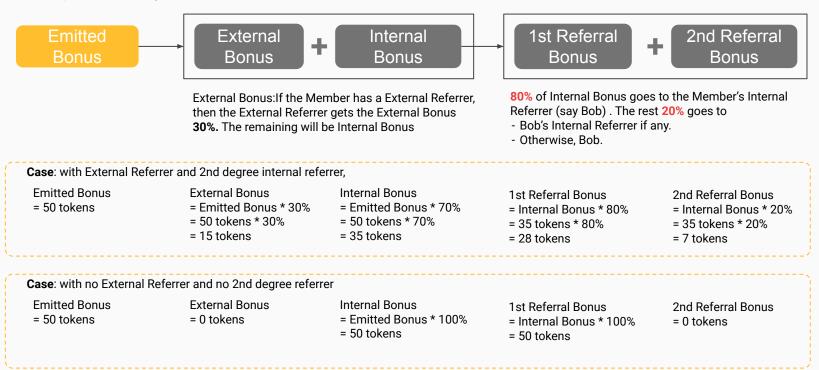
Note if the DPO fails to buy the Default Target and buys a target using **less funds** than it raised, then the **Distributable Bonus** will be discounted accordingly. For example, if the DPO only utilizes 80% of the funds, the Distributable Bonus will only be its 80%

Note a Manager does not receive any Bonus within its own DPO, except for the Manager of a lead DPO, which buys a Cabin directly.

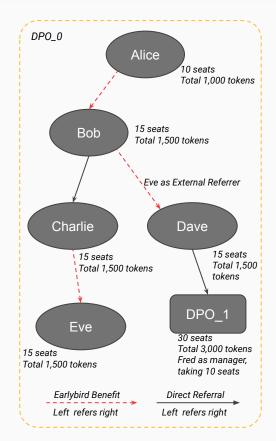
Note that the DPO keeps the remaining bonus and distribute within itself.

How DPO Distributes Bonus: (2) Bonus Allocation Based on Referral Structure

Step 2: Distributing **Emitted Bonus** to all referrers.



(Optional) An Illustration of Bonus Allocations



DPO_0 crowdfund 10,000 tokens for a TravelCabin with price 10,000 tokens. The Cabin gives 1000 tokens on purchase, i.e. Cabin Bonus Rate = 10%. Each DPO_0 seat requires a deposit of 100 tokens.

	Emitted Bonus	To Referrers	Received Total
Alice	1,000 * 10% = 100 (manager of lead dpo, keep all to herself)	0	100 (herself) + 150 (from Bob) + 30 (from Charlie) + 21 (from Dave) = 301 total
Bob	1,500 * 10% = 150	100% (150) to Alice	120 (from Charlie) + 84 (from Dave) + 30 (from Eve) + 6 (from DPO_1) = 240 total
Charlie	1,500 * 10% = 150	80% (120) to Bob. 20%(30) to Alice	120 (from Eve) = 120 total
Dave	1,500 * 10% = 150	30%(45) to Eve 70%* 80% = 56%(84) to Bob. 70% * 20% = 14%(21) to Alice	24 (from DPO_1) = 24 total
Eve	1,500 * 10% = 150	80%(120) to Charlie. 20%(30) to Bob	45 (from Dave) = 45 total
DP0_1	3,000 * (10 /100) * 10% = 30 (only manager's portion)	80%(24) to Dave. 20%(6) to Bob.	3,000 * (90 /100) * 10% = 270 For the members of DPO_2

Cabins Offered by the first BulletTrain

Configurable by any token project. As many tiers as you like.

Cabin Classes and Rewards

Cabin Class	Ticket Fare	Journey	APY	Bonus
Bronze	1K BOLT	90 Days	30.00%	4%
Silver	50K BOLT	180 Days	45.60%	8%
Gold	1M BOLT	180 Days	67.20%	10%
Platinum	10M BOLT	180 Days	91.20%	12%
Diamond	50M BOLT	180 Days	103.20%	14%

BulletTrain Quests

Quests are additional rewards that projects can issue for their BulletTrain.

On Spanner, we use Milestones to reward total community achievements.

With each milestone, BOLTs are sent to every BulletTrain passenger.

Milestone Rewards

	Ticket Fare Milestone (BOLT)	Reward (BOLT)	Rewards are given at
	1M	2.5K (0.25%)	every milestone shared
	2M	6K (0.30%)	by all Cabin buyers
	3M	10.5K (0.35%)	proportionally to their
	5M	20K (0.40%)	total buy-in ticket fares.
	7M	31.5K (0.45%)	
	15M	75K (0.50%)	
	30M	165K (0.55%)	
	35M	210K (0.60%)	
	40M	260K (0.65%)	The earlier you join, the
	45M	315K (0.70%)	more milestones you can
	50M	375K (0.75%)	get!
	60M	480K (0.80%)	
	70M	595K (0.85%)	Up to 10% if you receive
	80M	720K (0.90%)	all the Milestone
	90M	855K (0.95%)	Rewards
	100M	1M (1.00%)	110110100
I			

BulletTrain Playbook - for DPO Managers

No money, No problem.

- Managers can open a DPO with 0 token input and charges up to 5% base Management Fee. DPOs with lower Management Fee will be more popular for people to join. You can close it faster, buy the Cabin earlier and then get the bonus earlier.
- With the bonus and fee earned in smaller DPOs, now you can buy some seats in your new DPOs to increase Management Fee to earn more for the same efforts in growing your DPO.

Act quick

Management fee will be slashed in following situations

- Complete your crowdfund and buy your target before it runs out.
- Not buying a target within 7 days after your crowdfund completed will slash your Management Fee permanently by 50%.
- Not releasing the accumulated rewards of DPO every 7 days will slash your Management Fee temporarily by 50%.

Be flexible

- You can create a small DPO to join your own bigger DPO. This lowers the barriers for some potential members.
- Help the DPO targeting your DPO to grow. Their crowdfund will join together as your crowdfund. Refer people to their DPO and even buys some seats of their DPOs to lock-in a collaboration.

Aim higher

- Creating a DPO to join a bigger DPO allows you to earn more than buying a Cabin your DPO can afford alone. Check twice before you decide on the default target.
- If your default target is not available, try to find another target for your DPO that utilizes your crowdfund to its fullest. The unused fund is a loss of opportunity for the Manager and Members.

Think win-win

Earn more by giving more to others. Grow DPOs with less efforts.

- Don't mind charging a lower Management Fee.
- A higher **Direct Referral Rate** incentivizes Members in DPO to grow your DPO for you.
- Encourage others to join your DPO via a new DPO. Them as managers are more motivated to crowdfund for your goal for more yields and bonus.

Be vocal and helpful

- Share Spanner and BulletTrain to more channel (twitter, youtube). More opportunities especially for communities where Spanner is lesser known. For example, help translate document in your language, curate a local group or update an explainer video.

BulletTrain Playbook - for Referrers

Be vocal and helpful on all channels

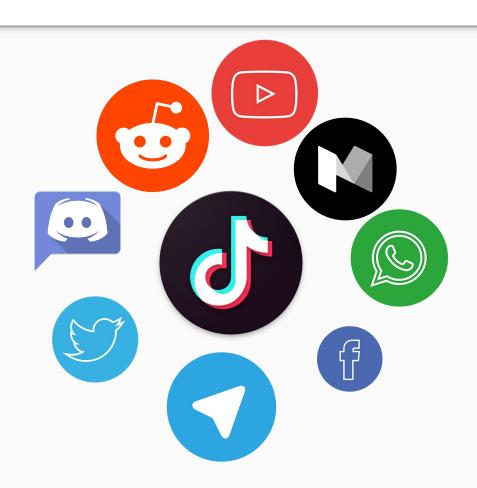
Share your general BulletTrain referral link to all channels. More opportunities for communities where Spanner is lesser known. Sharing a link does not require you to hold any BOLT token. You will at least get external referrer bonus for your efforts in helping the project grow. Example referrer activities include:

- Translate website and explainer documents in your language
- Curate local Telegram/Whatsapp group and share the project
- Film a short video to explain projects and help users use BulletTrain
- Create a regional Facebook group to discuss the projects.

Prioritize internal referral

You can also generate referral link for a specific DPO. Users clicking on the link will first land at the DPO you specify. Note they will also indicate you as referrer even if they join another DPO instead. Internal referral normally gives more bonus than external referral.

- If you are a DPO Manager or a Member of other DPOs, prioritize referring users to join these DPOs.
- if you refer a user to join a DPO that you are not yet a Member of, consider buying at least 1 seat of that DPO or you might miss the Internal Referral Bonus.



BulletTrain Playbook - for Individual Users

Aim higher

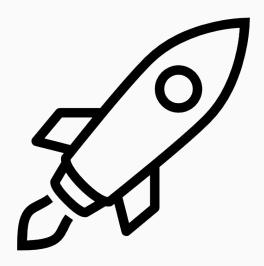
- Joining a bigger DPO normally gives more bonus and yields. Check twice before committing to any DPO.

Join early

- Joining a DPO early gives you a higher chance to have a free internal referee by the Rule - Earlybird Benefit. Even if you only buy 1 seats.
- Participating in BulletTrain early can give you more Global Reward along the way. It adds up to 10% extra of your input if you join really early.

Keep a lookout

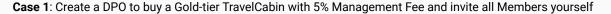
- In case your DPO has a lazy manager, be sure to act (like releasing yields) before them after grace-period to save on management fees by *Rule - Permanent Slashing* and *Rule - Lazy Slashing*.



Up your game

- Become a referrer by referring others to your DPO as their internal referrer, or other DPOs as their external referrer.
- Become a DPO Manager yourself. As you know more about the BulletTrain it becomes increasingly easy for you to find the like-minded.

How to earn more than 100K BOLTs with 0 BOLT?



Management Fee Earned

= Total Yield * Management Fee

= 1M * (68% / 2) * 5%

= 18k

+

Referral Bonus Earned = Total Bonus

= 1M * 20%

= 100k

Total Earned = 118k

-

Case 2: Create a youtube channel to explain BulletTrain and share your referral link. Earn 30% of total bonus given as an external referrer. Assuming the people you referred join DPOs that gives 10% Referral Bonus on average. Total amount of crowdfund is 4M.

Management Fee Earned

= 0

+

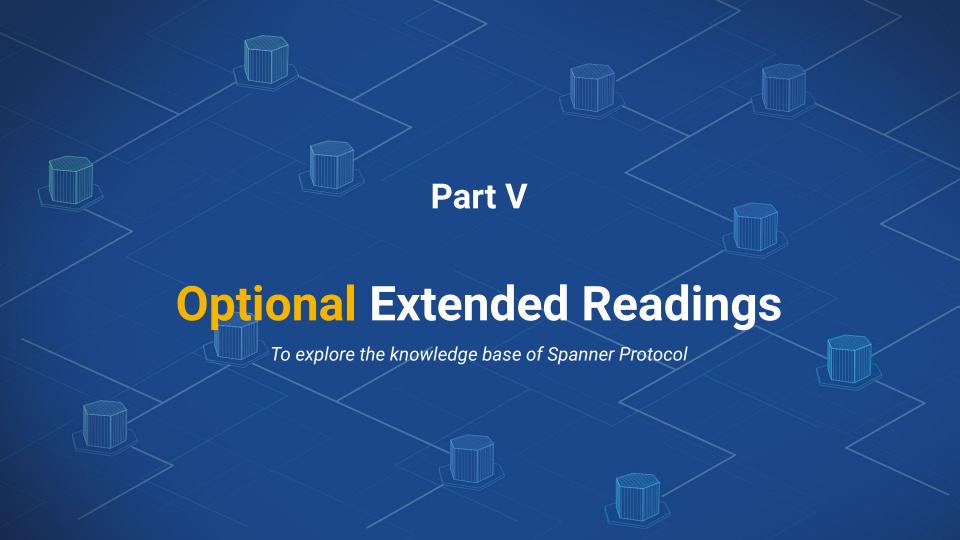
Referral Bonus Earned = 4M * 10% * 30%

Total Earned = 120k

= 120k

Earn more from here on

 Create a DPO and buy some seats yourself to earn higher Management Fee, bonus and also the yields generated by the seats you purchased!



The Future of Decentralized Collaboration

Decentralization Polarized. Do anything, with anyone, at anyscale - borderless



DPO is Disruptive Technology

A successful decentralized token project must have: asset, liquidity and community

A token project needs...

Asset

Creation made accessible to anyone using the ERC-20 token standard

Liquidity

Provision made simple with the DEX and yield farming

Community

Growth made viral with Decentralized Programmable Organization (DPO)

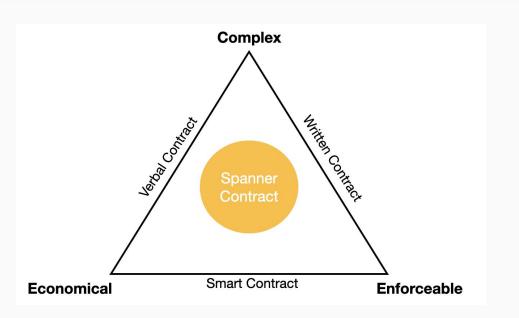
Triple Frontier Innovation

What Spanner has in common with Bitcoin and Ethereum?

	Technology Innovations	Economic Model Incentives	Community Wealth Effects
Bitcoin	The first monolithic Blockchain. Demonstrated as the first crypto asset	The "digital gold". Halving Cycle. PoW.	Mining using simple hardware in early days.
Ethereum	The first layered Blockchain for programmable Smart Contract. Demonstrated by ERC20.	ETH as a utility token for Smart Contracts. The more people use, the more expensive it gets	ETH is the gateway to all ICOs, which raised over \$7 billion in 2018.
Spanner	The first organization-centric Blockchain for plug-and-play Dapps. Demonstrated by the BulletTrain.	BOLT as a utility token for Spanner Components. Economies of Scale - the more people use, the cheaper it gets.	BOLT will be the gateway to BulletTrain, a viral growth model for projects.

Contract Trilemma

What's the bigger picture?



Contracts speedup collaborations.

Complexity, Enforceability and Affordability. We can only pick 2 out of 3 today?

But can we pick three?

Here's Spanner's answer

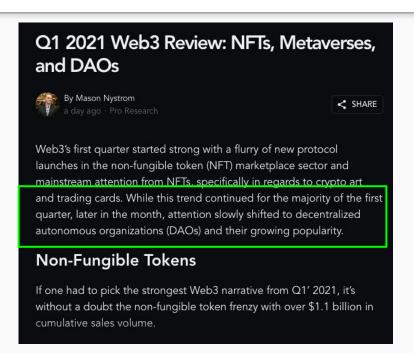
Community Power

A trillion dollar problem waiting for a solution



DAOs will become a norm in the near future

Offering a new way to collaborate where trust is guaranteed by blockchain



The crypto industry has seen wide mainstream adoption 2020-2021. With rising interest in DAOs and Spanner's pioneering technology in DPO, Spanner aims to be the leader in developing DAO capabilities for both crypto and real-world use-cases.

Keys to Collaboration

Achieving community consensus

Clear Goal A common goal for the community to strive **Formal Structure** towards. A formal system of task and relationships that govern how community (2) members are to **Fair Incentives** cooperate and achieve Incentives designed to their goal. boost community collaboration. Distributed fairly based on verifiable contributions.

Achieving Community Consensus

The key to enable effective decentralized collaboration at scale

Goal

A *clear* and common goal for the community to strive towards.

Structure

A <u>formal</u> system of task and relationships that govern how communities are to cooperate and achieve their goal.

Incentive

Incentives distributed <u>fairly</u> based on verifiable and measurable contributions. The fairness comes from bottom-up market pricing mechanism.

DPO Growth Community Consensus

DPO Design Principles

DPO for Growth

Goal

Growth target is easily <u>verifiable and measurable</u>. Indicators like total token holders and token holding values are effective to measure the impact of growth.

Structure

Growth is naturally achieved by forming DPOs. To maximize growth, DPO needs a *fully open* structure where anyone can create, grow and join DPO. Supports *cross-DPO* collaboration that a DPO can join another DPO to form a bigger DPO.

Incentive

Given the growth indicator is verifiable and measurable, DPO can provide a <u>result-based reward</u> mechanism and allow communities to <u>program incentive</u> parameters. Let the market determine the best incentive parameters bottom-up in a <u>decentralized manner</u>.

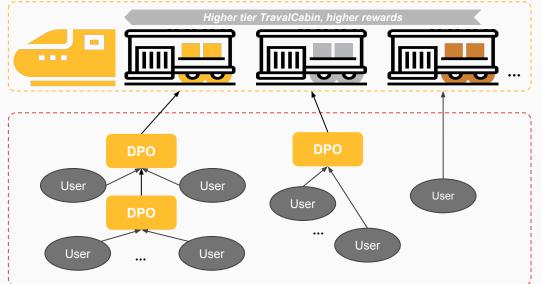
BulletTrain - Viral Community Growth

DPO Design Principles

DPO for Growth

DPO for BulletTrain

Project launches a BulletTrain with multiple TravelCabins (reward packages)



Communities buy TravelCabin(s) and become BulletTrain passengers to earn rewards

Launch a BulletTrain with 1-click

The aim of BulletTrain is for projects to give more tokens to its community. Any token project, new or existing, can launch a BulletTrain and give tokens in the form of yield and bonus.

Self-organized viral growth with DPO

To buy a TravelCabin. Either directly or indirectly through another DPO, i.e. cross-DPO collaborations. each DPO remains autonomous and settle locally within the DPO

Community members of different skill sets can capture the value they create by:

- > Being a Manager and earns fee from all members.
- > Being a Members and earn yields by seats
- > Being a Referrers and earn bonus by referrals. This appeals to affiliate marketers such as twitter influencers, voutubers, telegram channel moderators.

DPO vs DAO vs Traditional Company

How they differ in essential dimensions

FEATURES	Traditional Organization	DAO	DPO
Decentralized Ownership	X	~	✓
Guaranteed Execution by Blockchain	X	~	~
Goal Oriented	~	X	~
Organizational Structure	~	X	~

Elevator Pitch Building Blocks

Innovating DAO with DPO

Spanner is a Substrate-based blockchain optimized for DPO that innovates DAO with structure to make operational decisions like modern companies. User can define how DPO works internally and externally interfacing with other DPOs through Smart Contracts.

DPO and Borderless Future

DPO can work with any on-chain and cross-chain assets and connect with off-chain activities. DPO is designed for the project vision of borderless collaboration where anyone can do anything at anyscale, as small as a group of friends to large multinational companies.

DPO for Decentralized Crowdfunding

DPO V1 focuses on crowdfunding on Blockchain. The crowdfunding is accessible for anyone, for anything on blockchain (investing in NFT, staking, yield farming etc) and for anyscale through an innovate DPO composition feature. Already with user adoptions, growing fast in the Polkadot ecosystem and connecting to more layer-1 blockchains.

New Forms of Digital Organization

Spanner enables people to create a new form of organization where user actions are rewarded based on the organization's goals and incentives. Spanner is a protocol that helps new crypto projects as well as non-blockchain organizations do things more transparently and fairly through our organization structure, the DPO.We foresee a future where the DPO is a viable alternative to corporations in running highly effective businesses.

Initial BulletTrain Offering

For token project teams, BulletTrain offers

- 1 step deployment, simply configure the rewards as TravelCabins
- 0 marketing cost. Communities are incentivized and self-organized using DPO
- Infinite scalability. DPO can scale up to anyscale of crowdfunding.

The End