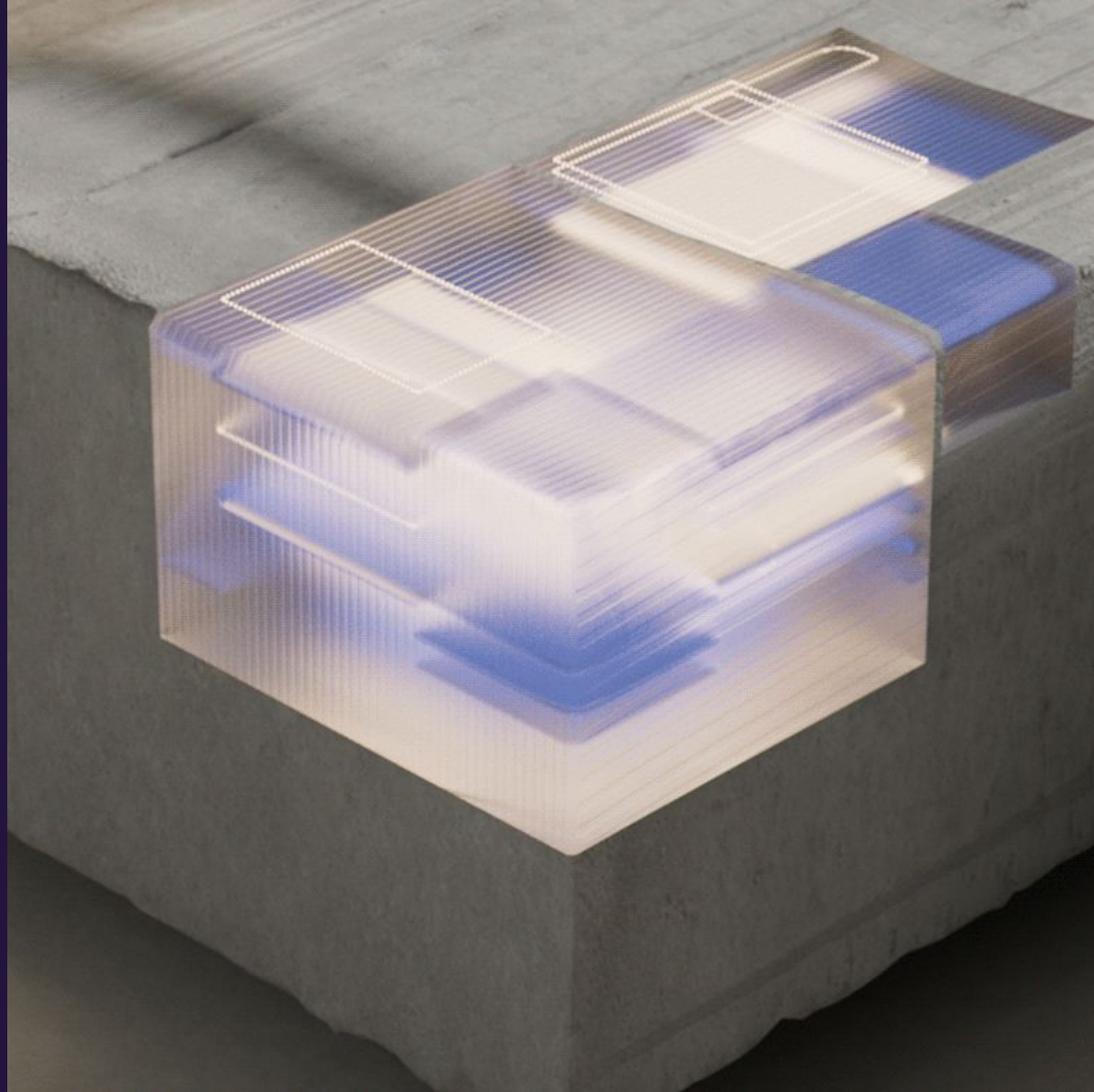


Polygon Supernets

Build and power App-chains with
industry-leading tech & partner ecosystem.



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Agenda



1. Why App-chains
2. What are Polygon Supernets
3. What problems Polygon Supernets solving
4. Key Features and Benefits
5. Comparison of Polygon Supernets & Polygon PoS
6. Polygon Supernets Roadmap





App-Chains/Polygon Supernets

Why do we need App-chains



App-chains provide you customizability, compliance implementation options and control over the blockchains. These are the solution to some of the limitations of permissionless blockchains.



App-chains (Application specific blockchains) are blockchains customised to run one or more applications. App-chains allow you to define your own throughput, gas currency, gas limit requirements etc.

What are Polygon Supernets



Polygon Supernets allow clients to build and power their own App-chains. Polygon Supernets are powered by Polygon's cutting-edge EVM client technology, with premium end-to-end support and tolling from one of Polygon's Implementation Partners.



Polygon Supernets allows you to create high-performing, customizable App-chains with compliance implementation options, in a fast seamless way so that customers can focus on their business model and user strategies



Challenges of building App-chains

without Polygon Supernets



Cold-start problem-

The long and strenuous process of deploying and closing the deals on secondary blockchain infrastructure. Difficulty to access premium 3rd party tools/services



Expertise-

Lack of in-house expertise in building/monitoring/ Maintaining blockchain network



Bootstrapping the network-

Hard to find quality validators and bootstrap the network.



Focus on GTM-

Premium support & consultancy for your project. Ability to do PoC and fast GTM

Polygon Supernets

Key Benefits



Polygon Supernets allows you to set up custom, high performing, app-chain with compliance implementation options.



Helps you bootstrap validator sets with professional validators and allows progressive decentralization from marketplace of validators as the app-chain scales.



Supernets service provides access to premium tools and services

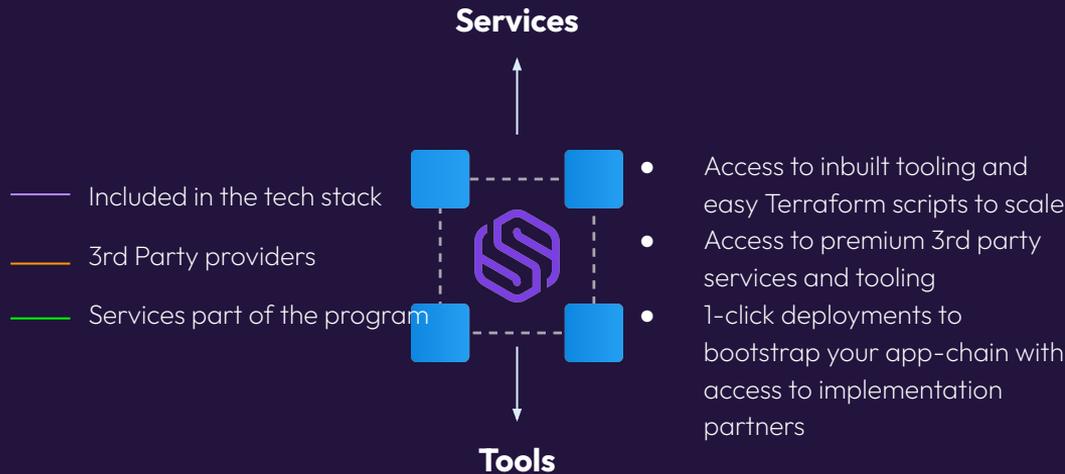


Polygon Supernets is here to solve the challenges



EIP-1559 Chain Governance

Native Bridge Relay

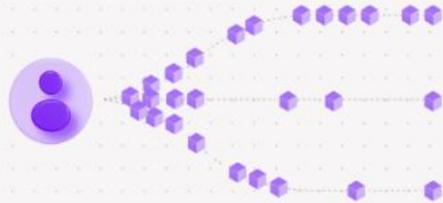


Implementation Partners

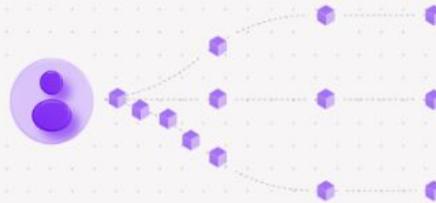
Node Providers RPC Providers Smart Contract Monitoring
Oracle Block Explorer KYC Provider Fiat on-ramp

Benefits of Polygon Supernets

Performance Isolation



Other chains affected by extraneous high activity on the network



Isolating your chain from other chains ensures that your user experience is not affected by extraneous high activity on the network

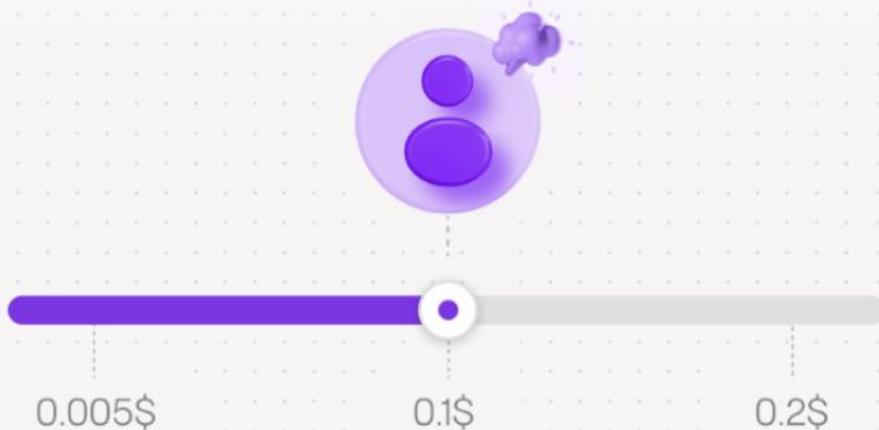
Dedicated Throughput

Having blockspace that is dedicated to your applications ensures that user experience is not affected by any extraneous high activity on the network, it provides better performance with dedicated throughput.

Benefits of Polygon Supernets

(Continued)

Predictable and customizable fees



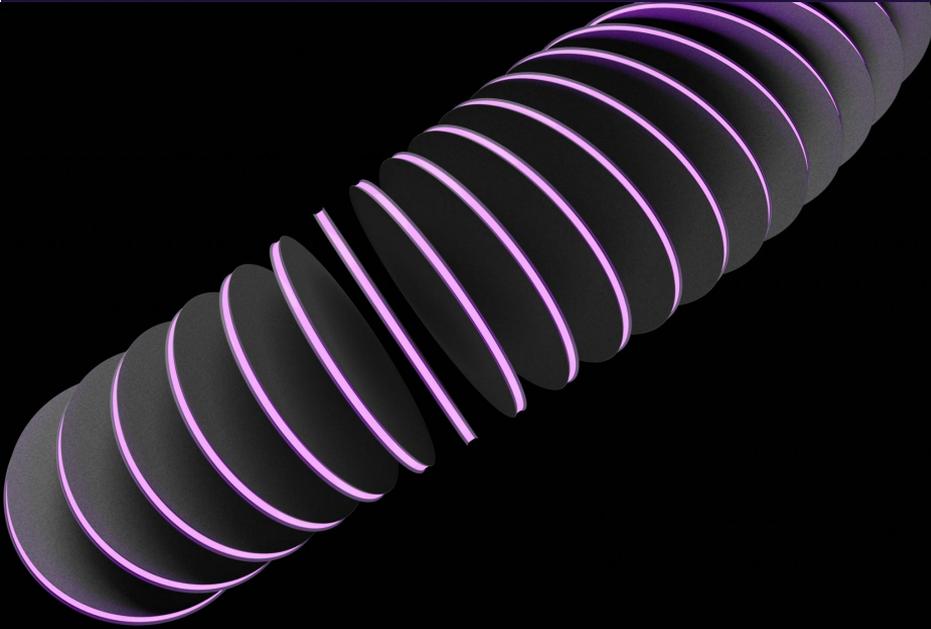
Controllable and predictable gas fees

Fees on shared permissionless networks are not under your control. High activity on the network for some applications may increase arbitrary charges for your application.

Having a custom fee structure allows you to get predictable fees and removes the fight for blockspace.

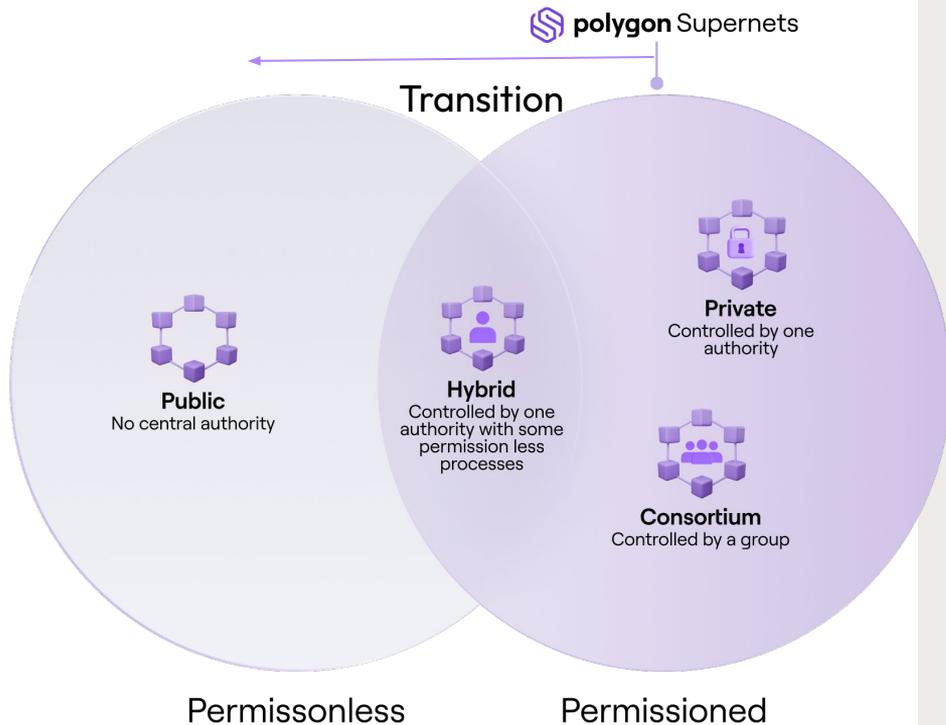
Benefits of Polygon Supernets

(Continued)



Regulatory compliance

Polygon Supernets allows customers a variety of deployment options so they can fit to any Compliance and/or Regulatory requirement.

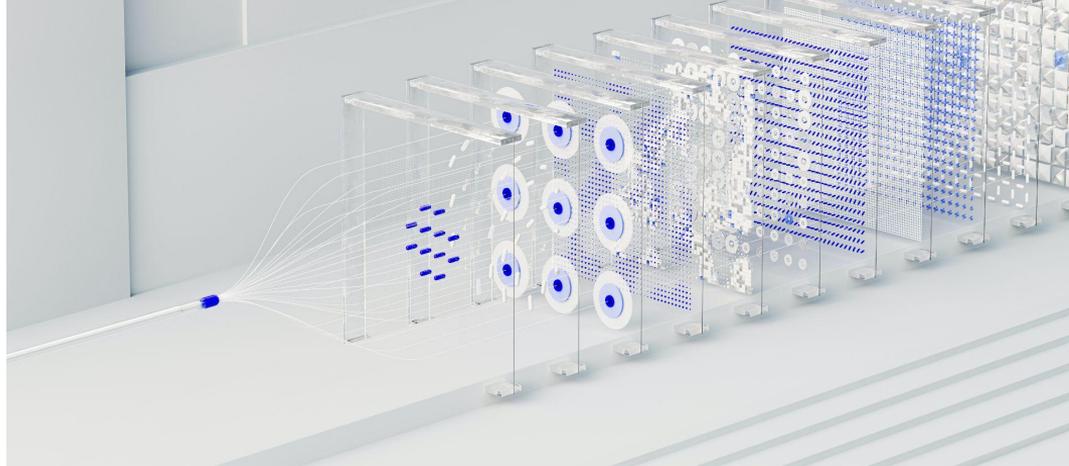


Permissioned or Permissionless Polygon Supernets



Polygon Supernets gives you the option to define how open you want your blockchain to be. You can start with your own validators as part of private network, handling deployment, admissions, block formation, and consensus rules. Over time, you can transform Polygon Supernets into a permissionless network with allowlist of who can handle validators, deploy smart contracts directly and which users can use the bridge etc.

Polygon Supernets Partners



★ STARDUST



Implementation partners:

Implementation partners offer design, development, testing, deployment and IT support services. The mentioned 9 implementation partners are here to help onboard you to Polygon Supernets

Tooling providers:

Oracles: Oracle Service providers offer APIs to connect Polygon Supernets to external systems and datasets.

Indexers: Indexers offer services to extract, transform and load Polygon Supernets data into consumable formats.

Node validators:

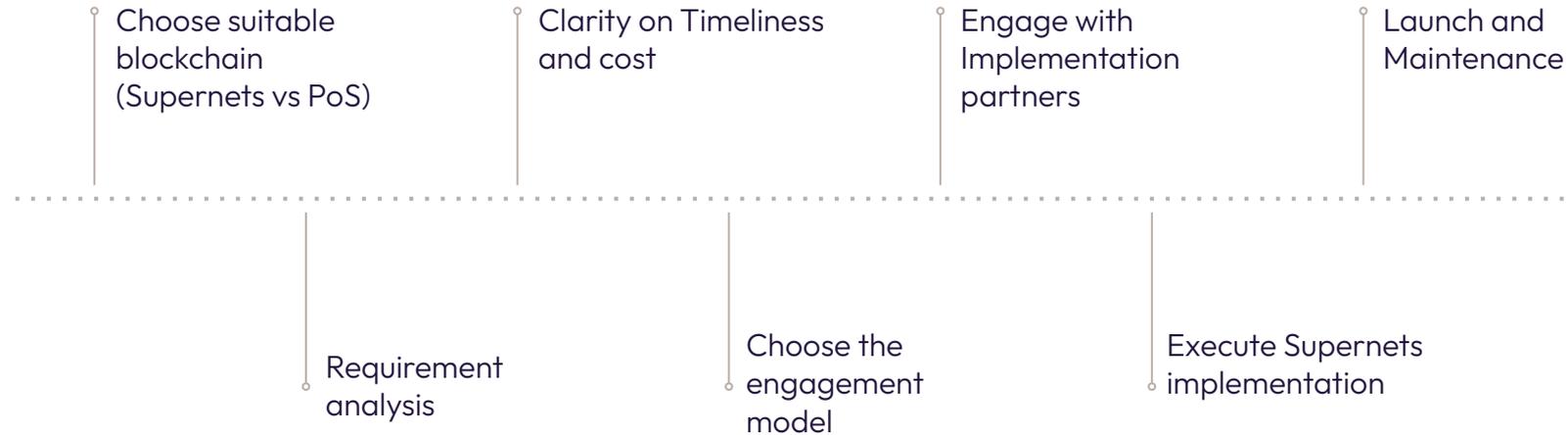
Node validators offer validator node hosting and maintenance services

Polygon Supernets Key features



- Polygon Supernets extends PoS Mainnet blockspace, the current deployment configuration we support is a PoS Side-Chain w/MATIC staked, additional configuration options will be added in the future (e.g. Validium Rollup w/Zero zkEVM integration).
- Customizable Blockchain Features
- Customizable Middleware
- Governance / Security
- Bridge
- EVM Compatible

Polygon Supernets Customer Journey



Polygon Supernets Use Cases spans across verticals



Gaming Companies



Enterprises



Successful Web3
Projects

Polygon Supernets vs PoS Mainnet



FEATURE

SUPERNET

MAINNET

Native currency (gas)

Your currency

MATIC

Performance

Entire network throughput dedicated to you

Throughput shared with all deployed dApps

Finality

Instant/Deterministic

Eventual/Probabilistic

Permissions

Configurable

Permissionless



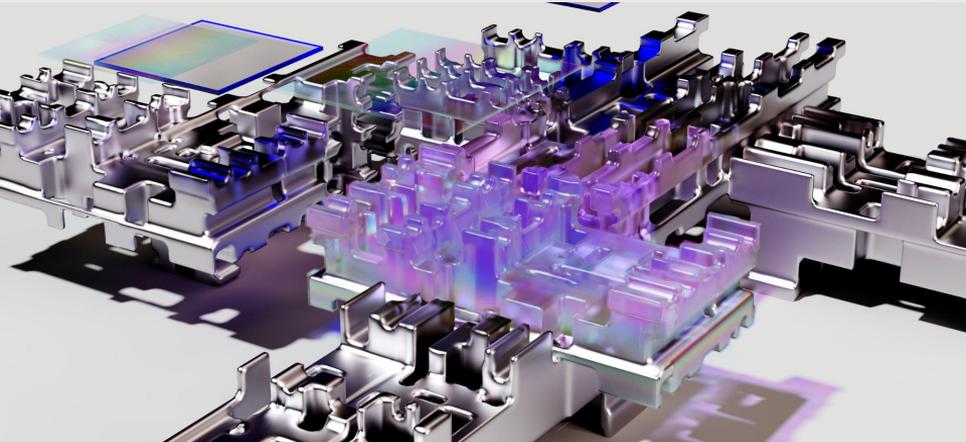
Polygon Supernets Roadmap



Roadmap may subject to change.

Appendix

Polygon Supernets usage constraints

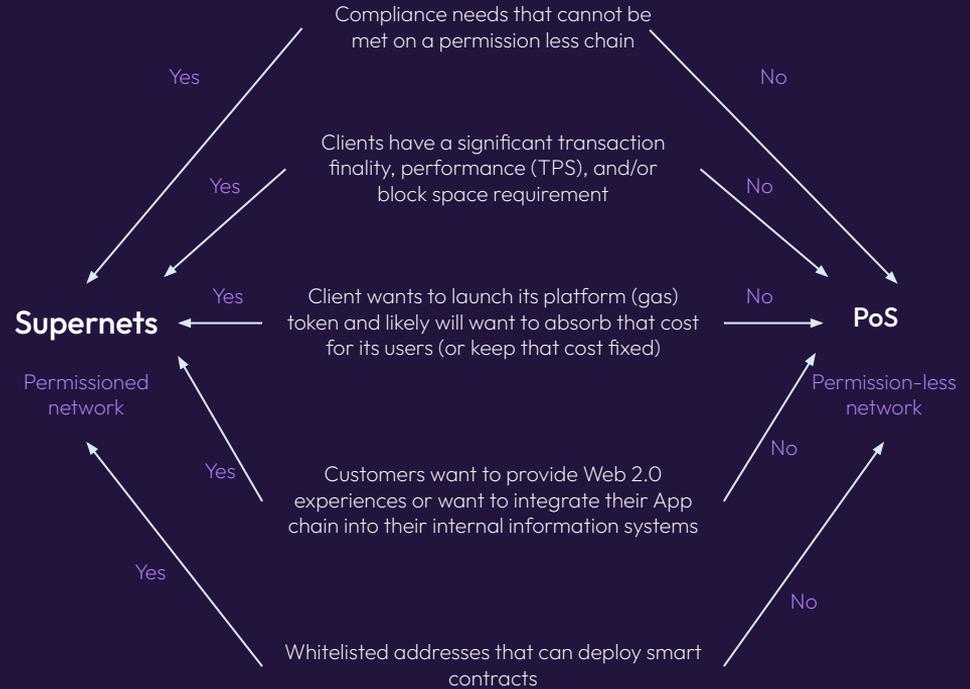


- EVM compatible, no other runtime is supported
- EIP 1559 tokens not supported today
- Can not use existing tokens like Eth, Matic as gas currency. It must be the newly created native currency
- Supernets are not designed to allow end-users to deploy their own arbitrary smart contracts as they would on the mainnet
- All validators must stake a minimum of 20,000 MATIC on Ethereum mainnet in order to be validating the network
- The validator MATIC rewards are envisioned to be decreasing over time, while your network is slowly expected to achieve on-chain rewards
- 0 gas fees not recommended although theoretically it can be set to Zero

Polygon Supernets vs Polygon PoS

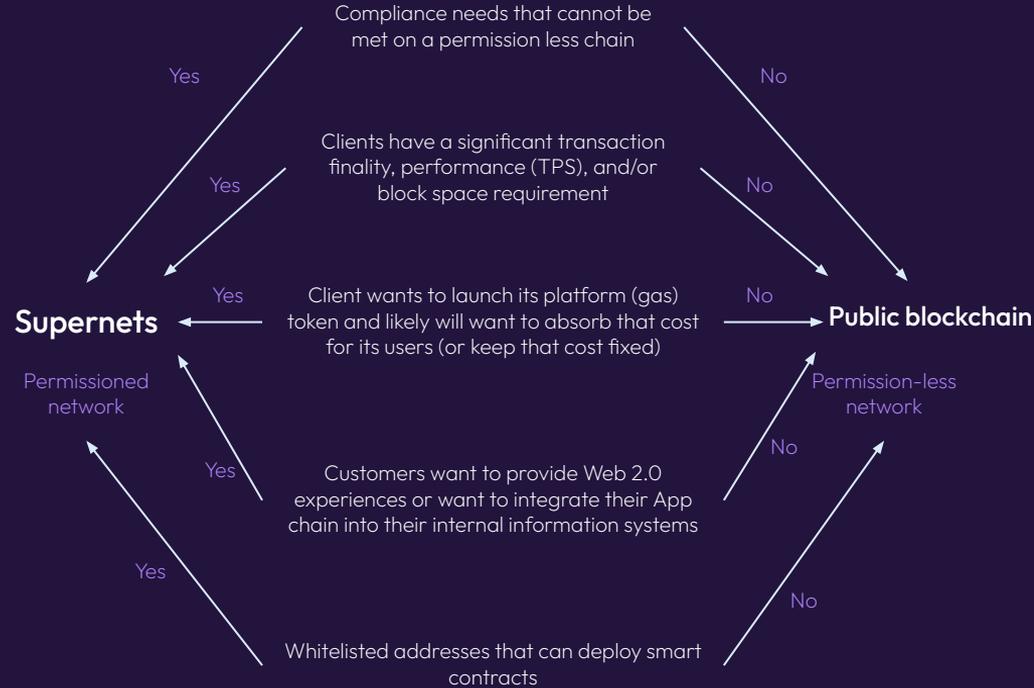


Supernets vs PoS decision tree

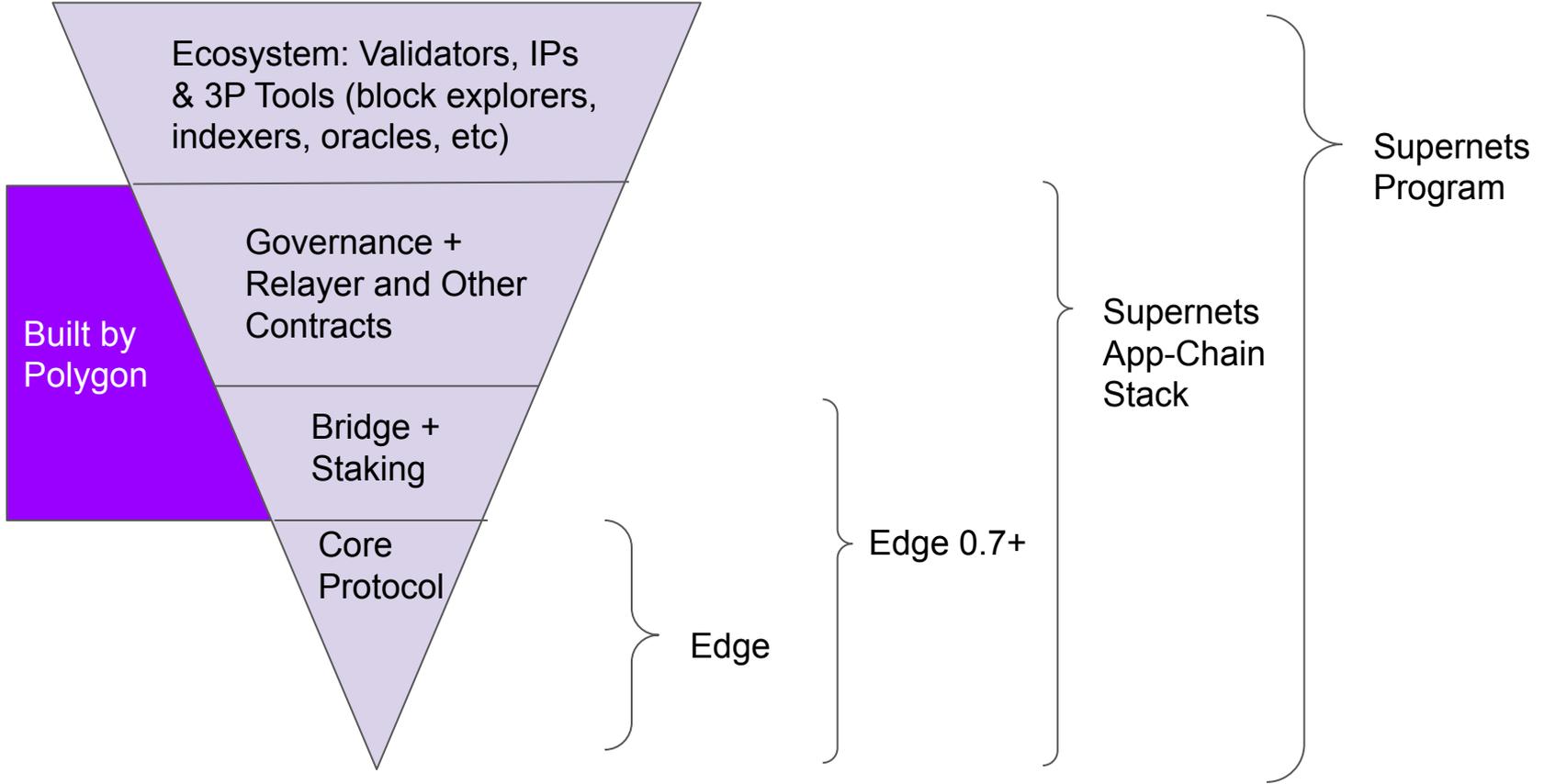


Polygon Supernets vs Public blockchains

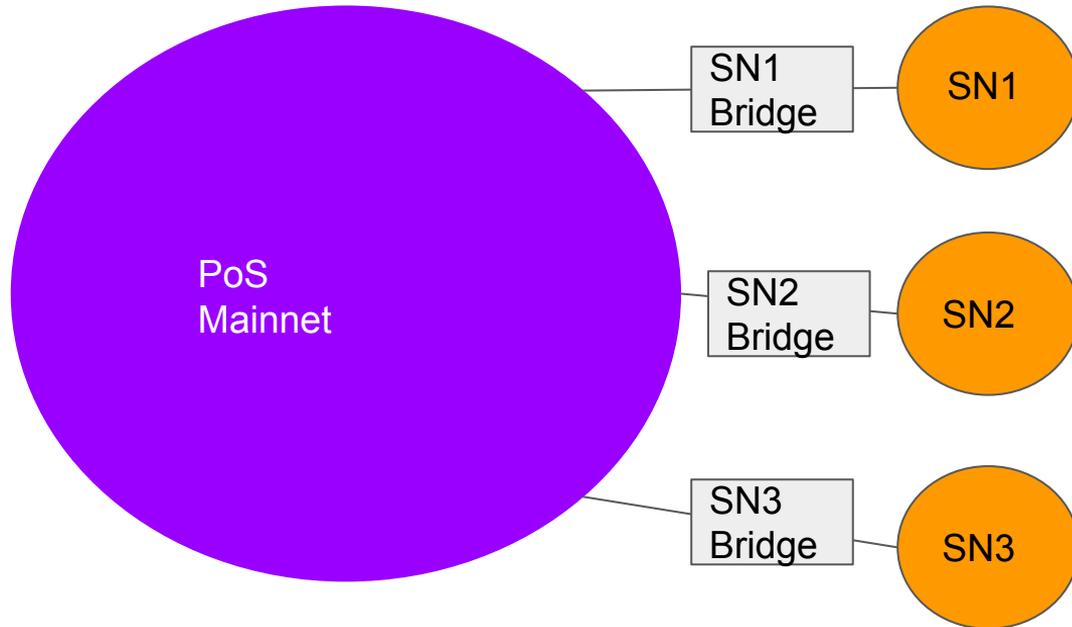
Supernets vs PoS decision tree



Edge \neq Supernets



Supernets Network Topology - Production Deployments



Supernets are side-chains, that extend PoS Mainnet blockspace.

MATIC is staked on PoS Mainnet

SN's Checkpoint to PoS Mainnet to enable exits (e.g. move an NFT to list in OpenSea on PoS Mainnet)



polygon