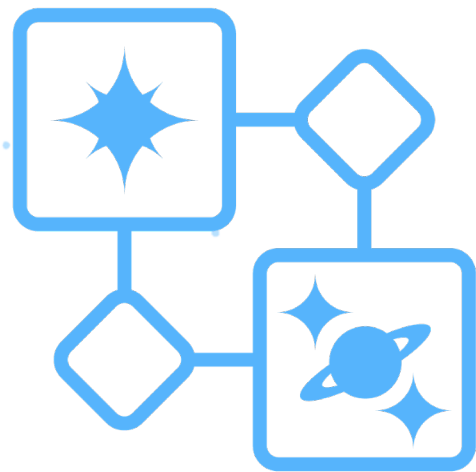


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# Problem

**“Main difficulties encountered while developing blockchain solutions?” A survey:**



Limited access to the technology due to its **complexity** and **stack size**



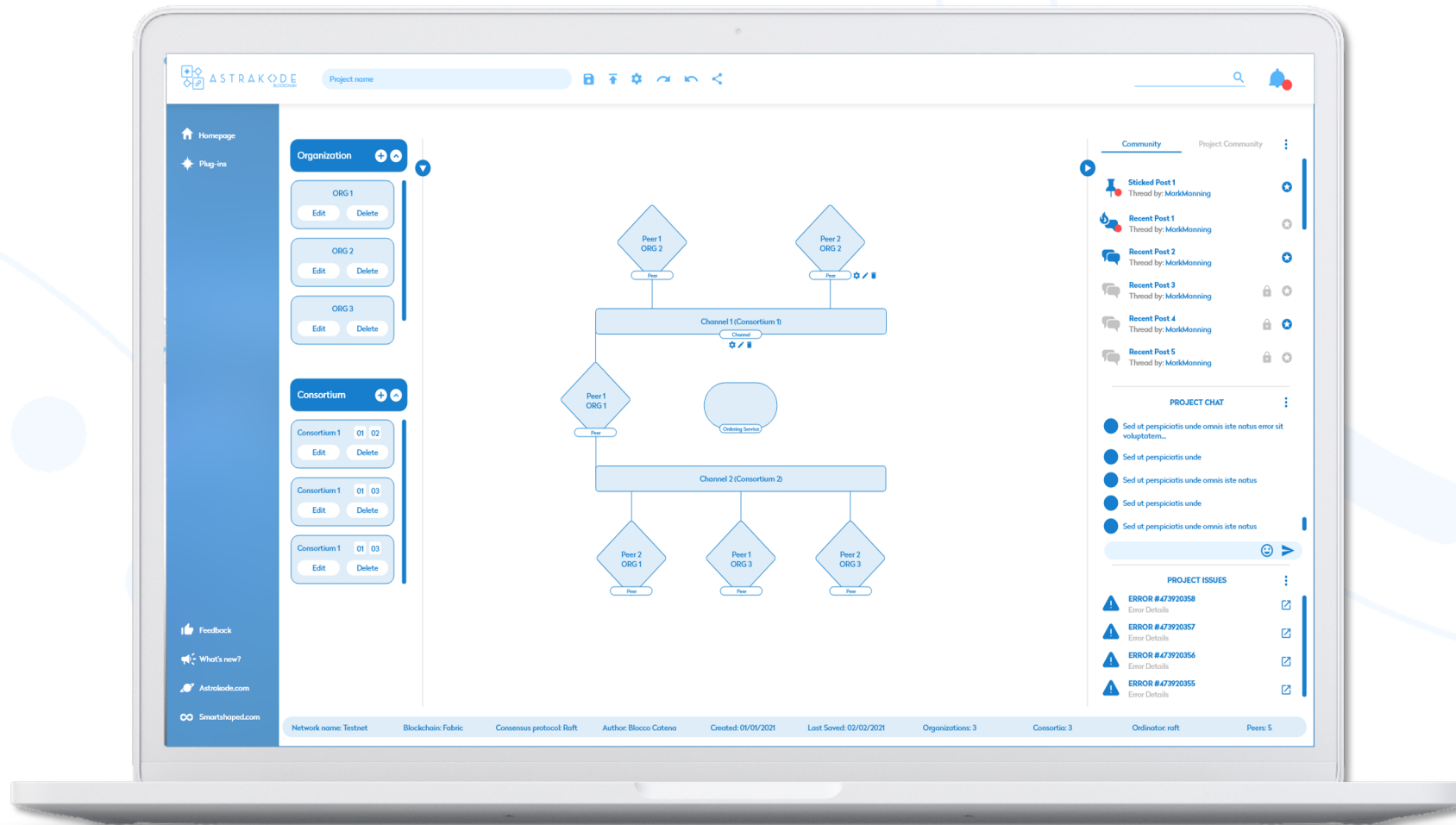
**Scarcity of qualified professionals** able to develop production grade solutions



**Scarcity of documentation** and other similar resources

In addition to AstraKode's own experience with the development of similar solutions, the problems identified have also been validated through market research.

# The Visual Approach



# Solution

AstraKode Blockchain (AKB), a low-code solution for (enterprise) blockchain development based on four pillars:

- **Network Composer**, a visual environment for blockchain (Hyperledger Fabric) network creation
- **Smart Contract IDE**, another visual environment for smart contract development
- **Assisted deployment** and **testing** functionalities for both visual environments
- **Built-in community** for peer-to-peer support and documentation/wikis

# Why AstraCode Blockchain?

- Unprecedented **speed, ease of design** and **accessibility**
- Ability to design, develop, and deploy a production-grade solution **within one platform**
- Low/no code approach makes for **ease of use** and **self-documented and validated projects**
- The platform's **community** offers access to **peer support** and **valuable learning content**

# Roadmap



**CURRENT VERSION: CERES**

**Network Composer  
Code Generation**

**Projects: 459**

**Users: 803**



**Major Update**

**Smart Contract IDE**



**Major Update**

**Premium Features  
Template Marketplace**



**Major Update**

**Assisted Deployment  
Testing Suite**



**Major Update**

**Additional Tech Compatibility  
(e.g. Corda, Algorand)**

# NGI Ontochain – BOWLER Project

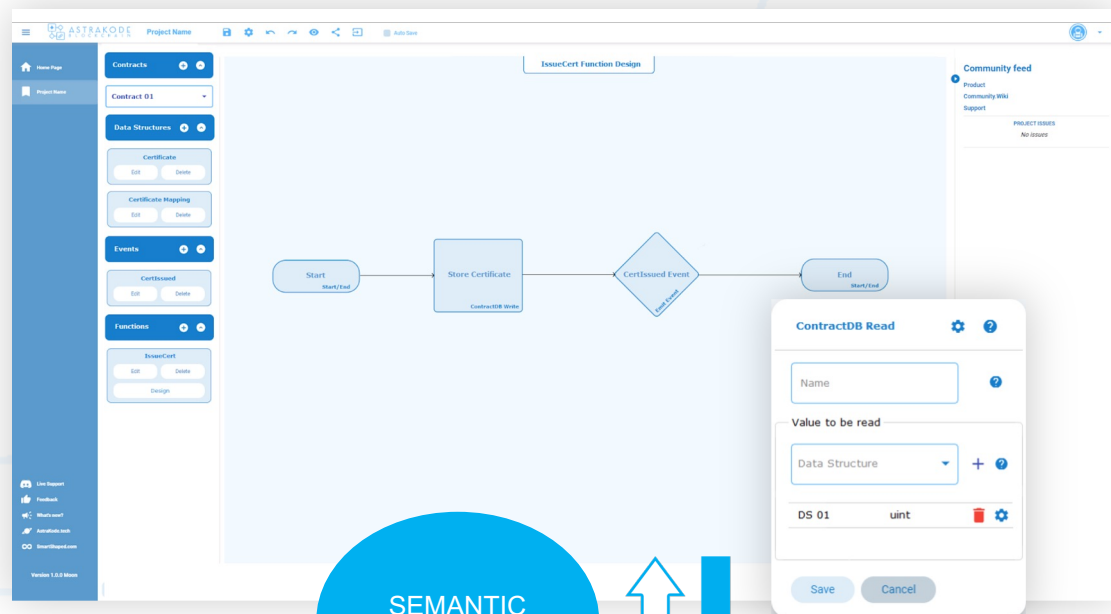
Under the European Commission Next Generation Internet initiative, ONTOCHAIN was launched in September 2020. The initiative will provide funding to internet innovators for developing Blockchain-based knowledge management **solutions that address the challenge of secure and transparent knowledge management** as well as **service interoperability on the Internet**.



BOWLER will **enable application programmers** who are **not well-versed in blockchain technology** (and smart contract) **to model smart-contract** enabled applications.

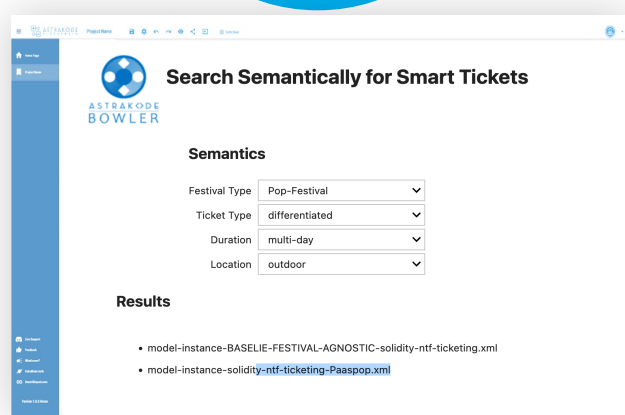
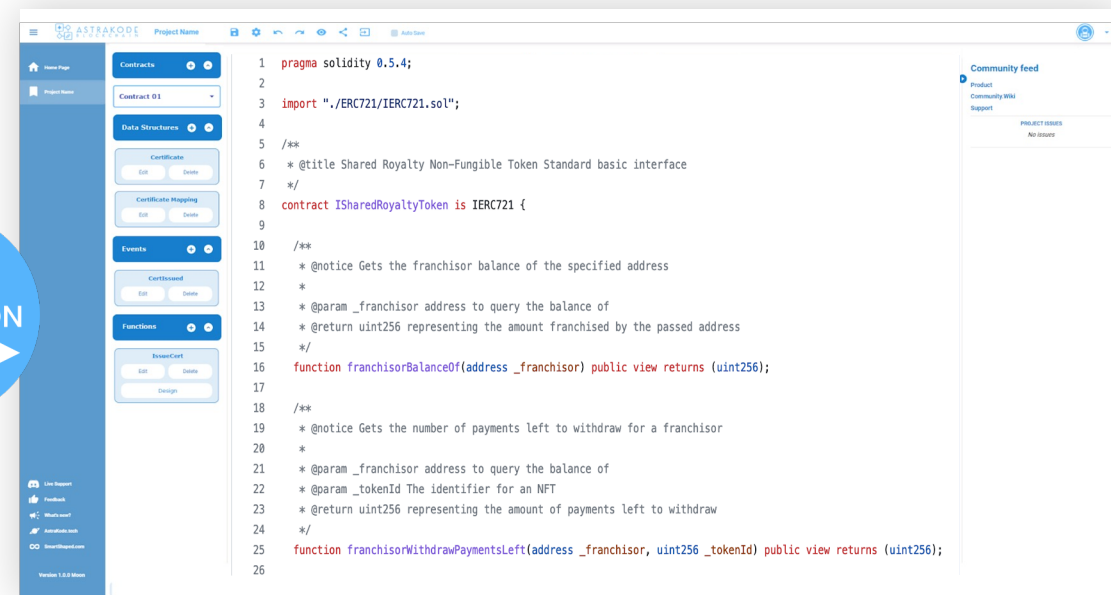


# BOWLER In Action



SEMANTIC  
REASONING

CODE  
GENERATION



Search-REST API

Storage-REST API

Semantic  
transformation



Blueprint  
repository



{REST API}

Blueprint  
Reasoner

# Open Research Topics / Collaborations

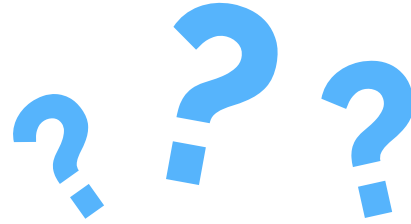
- AstraKode XML Model to RDF Model transformation
- Solidity contract to AstraKode XML Model transformation
- Security assessment in smart contract code and abstract models
- Smart contract optimization / infrastructure optimization
- ChainOps for smart contract-based distributed applications

# AstraKode Blockchain – Deep Dive

[AstraKode Blockchain - Product Deep Dive - Watch Video](#)

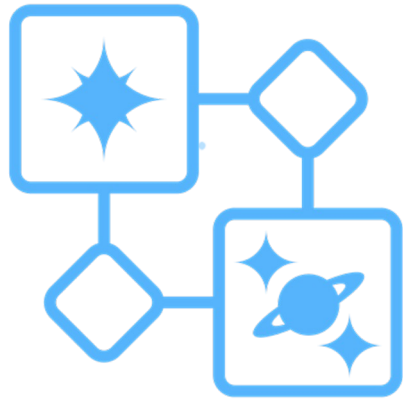


# Q&A and CTAs



- The platform is **free to use** at the moment and will always have an **extensive free perimeter** from which to download fully **opensource generated code**
- **Partnerships with universities** and research/training institutions on blockchain topics:  
[astrakode.tech/partnerships](https://astrakode.tech/partnerships)

# Thank you!



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