

# openIDL

Technology Steering Committee (TSC)  
Kick-off Meeting

Aug 13th, 2021



 THE **LINUX** FOUNDATION

## Antitrust Policy Notice

Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at <http://www.linuxfoundation.org/antitrust-policy>.

If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrave of the firm of Gesmer Updegrave LLP, which provides legal counsel to the Linux Foundation.



# Recurring TSC Meeting Details

**Second Friday of Every Month**

**Starting: Aug 13th, 2021 @ 1:00pm EST**

*For Updates, Please...*

- › **JOIN** the [TSC@lists.openIDL.org](mailto:TSC@lists.openIDL.org) mailing list and...
- › **VISIT** <https://wiki.openidl.org/display/HOME/Technical+Steering+Committee>

**Zoom Meeting Info (should be consistent):**

<https://zoom.us/j/92440959002?pwd=d1dsRHRZZXpad3FMMUxodVlPejVwZz09>

Meeting ID: 924 4095 9002

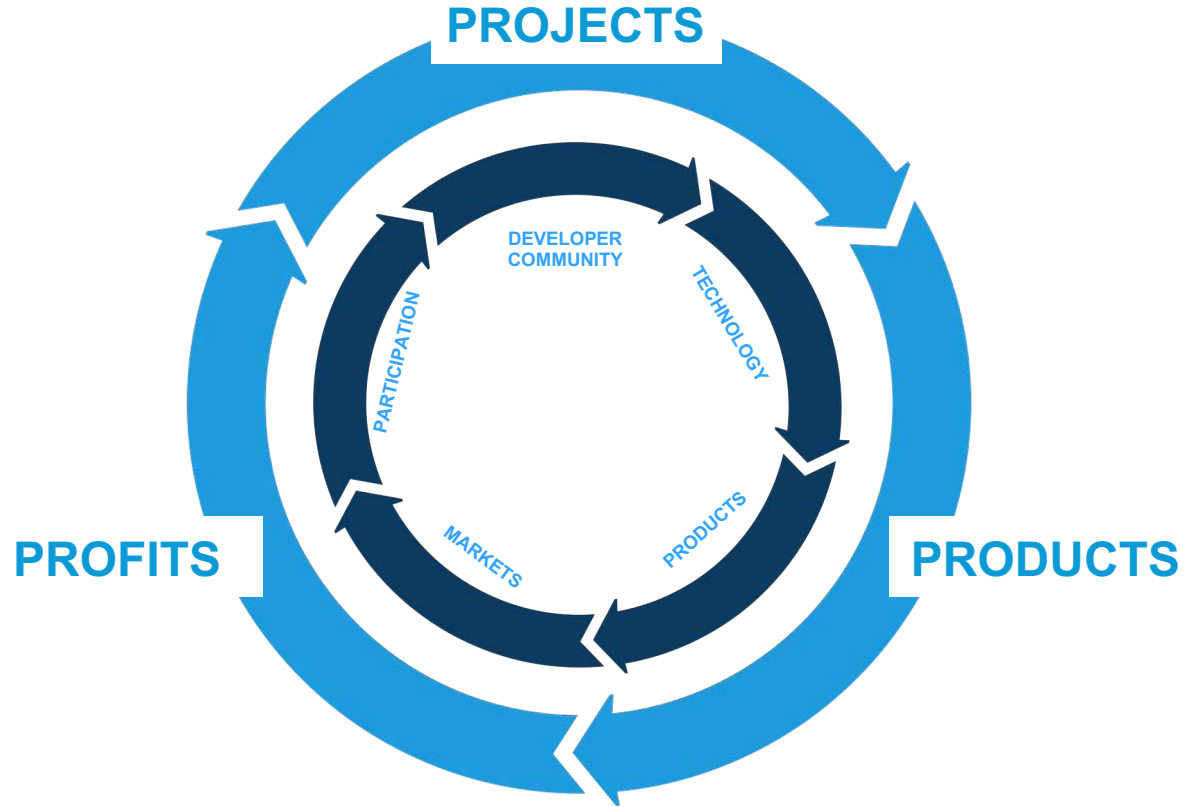
Passcode: 369672

# Call to Order – Welcome to Meeting #1!

- › Introduce the Technical Steering Committee (voting members):
  - › James Madison, Enterprise Data Architect - The Hartford
  - › George Ziembeakakis, Vice President & Chief Architect – Travelers
  - › Dennis Warren, Vice President & Deputy CIO – The Hanover Insurance Group
  - › Truman Esmond, VP Membership & Solutions – AAIS
    - › Chair, Technical Steering Committee
- › About the TSC: <https://openidl.org/technical-steering-committee/>
- › Welcome Community Participation: Insights, Feedback, Ideas... and Efforts!
- › Introduction to the Linux Foundation and Steering Committees:
  - › **Brian Behlendorf** - Executive Director for Blockchain, Healthcare & Identity

# The LF: Drive Projects With Sustainable Ecosystems

Sustainable projects have a developer community whose technology is used in commercial solutions that profit businesses, who in turn participate and reinvest back into the project and hire developers to work in the community.



# Standing TSC Agenda (draft)

- › Call to order: 10am PT/1pm ET
  - › Anti-Trust, Meeting Protocols and Welcome
  - › Approve Minutes from previous meeting
  - › Agenda Review / New Agenda Items
  - › Ongoing efforts and status updates / Project & Community input
  - › Backlog Planning/Grooming / Backlog items to consider
  - › Upcoming events and TSC scheduling
  - › Committee Items Under Consideration / Voting Discussion
  - › Wrap-up: To-dos and outbound communications
  - › Community Discussion: time permitting
- › Adjourn: 11am PT/2pm ET; informal discussion following

# Linux Foundation Steering Committee Meeting Protocols

- › Linux Foundation's Code of Conduct
  - › <https://events.linuxfoundation.org/about/code-of-conduct/>
- › Open Source Community Participation & Culture
  - › <https://www.linuxfoundation.org/resources/open-source-guides/>
  - › Anti-Trust Awareness
  - › Professional and Respectful
  - › Open and Accepting
  - › Transparency on Conflicts of Interests, Time or Capabilities
  - › Encourage Discussion, Respect Privacy and Proprietary insights
    - › Refrain from personal or direct attribution or sharing confidential experiences

# TSC First Meeting Agenda

- › TSC Charter and Operations – Chair
- › openIDL Overview and Technical Resources Introduction
  - › Ken Sayers, Solutions Architect – AAIS
- › Status of Ongoing and Upcoming Efforts – Chair
- › Establishing Technical Backlog – Chair
- › Items for Consideration:
  1. Comments or questions on Charter; consider ratification
  2. Proposal: Move Regulatory Reporting Data Model Sub-Committee to RRSC (8/16)
  3. New items for consideration (Members, Floor + Member Second)
- › Discussion, Communication, Actions and Adjourn
  - › *Informal discussions to follow*

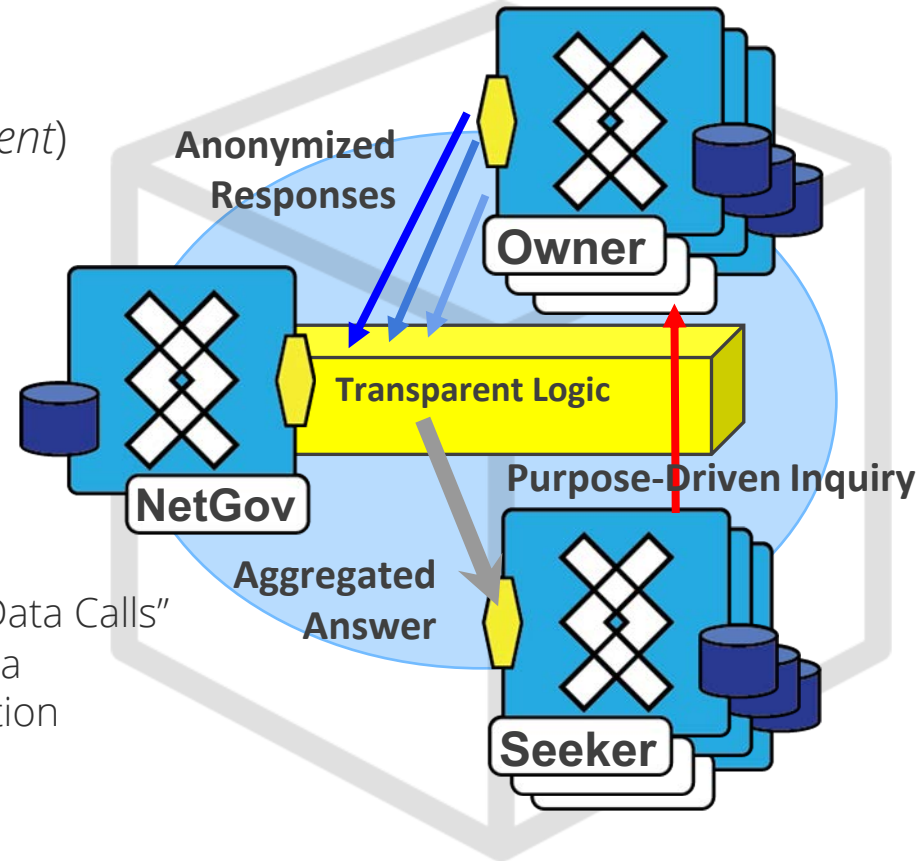


# Technical Steering Committee Charter

- › Wiki: <https://wiki.openidl.org/display/HOME/openIDL+Technical+Charter>
- › Collaboratively develop and maintain the code for openIDL nodes and utilities under the open source licenses and open governance of the Linux Foundation.
  - › Technical oversight of the codebase
  - › Manage “Committers” to the project
  - › Facilitate efforts of Contributors and Working Groups
- › Voting rules, Code of Conduct & Policies, Community Assets & IP Policy

# Overview: openIDL Network

- **Network Governance: AAIS (*Statistical Agent*)**
  - › Founding Consortia; Community
  - › Sets Standards, Roles, Org. Permits
  - › Network and Code Governance
- **Data Owner: Insurers**
  - › Deploy Data to own Peer
  - › Data remains private/secure
  - › Permits "Trusted" Interactions (or not)
- **Information Seeker: State Regulators**
  - › Deploys information requests of peers: "Data Calls"
  - › Transparent, governed interactions w/data
  - › Assured provenance of resulting information



# openIDL Technical Overview

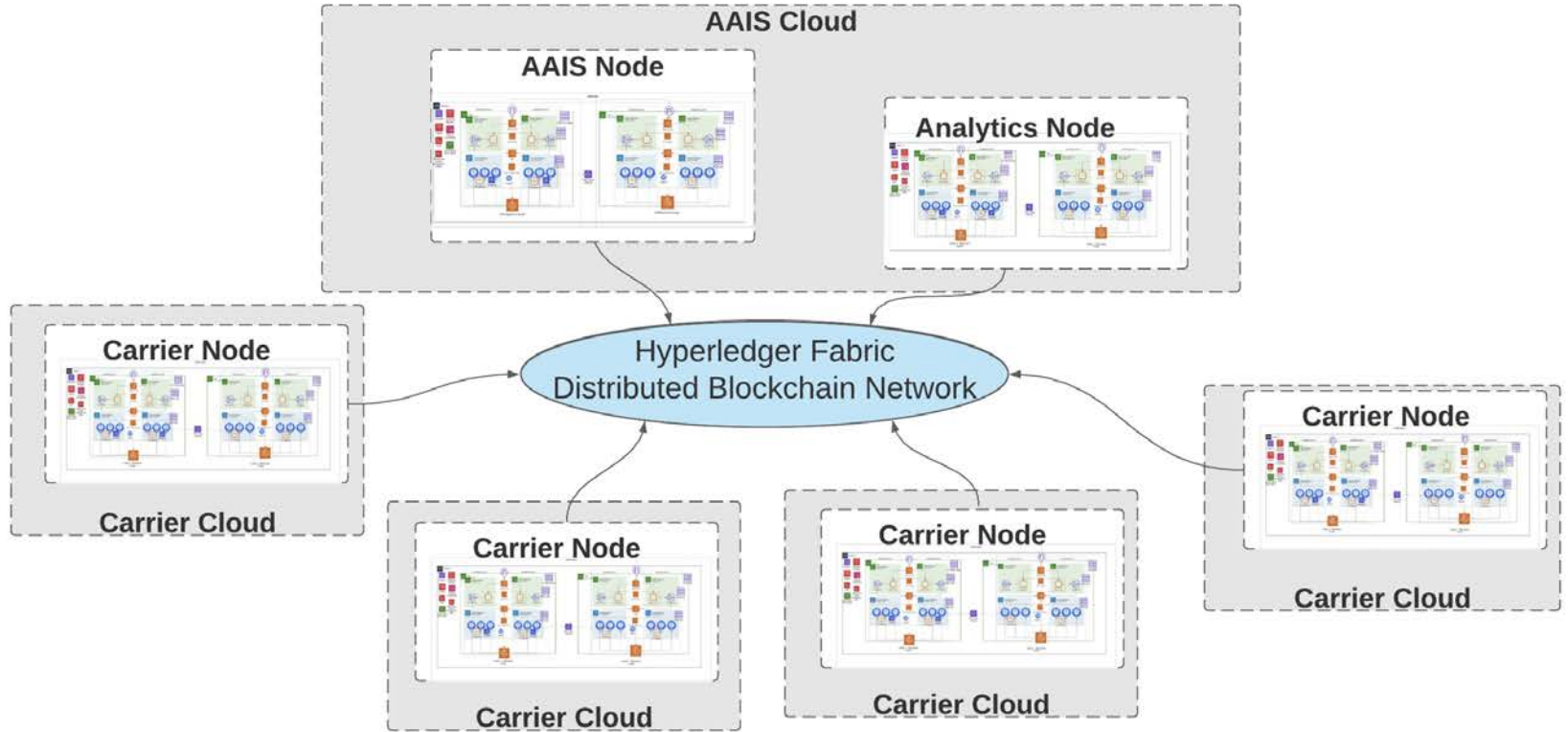
- › Ken Sayers, Solution Architect – AAIS
  - › Leading the collaborative development of the openIDL reference implementation with Chainyard – an infrastructure member of openIDL
- › Process Overview – Loading and “Extracting”
- › Architecture Overview – Orgs, Nodes and Channels
- › Reference Implementation Status – Tech Docs and GitHub repos

# openIDL Technology

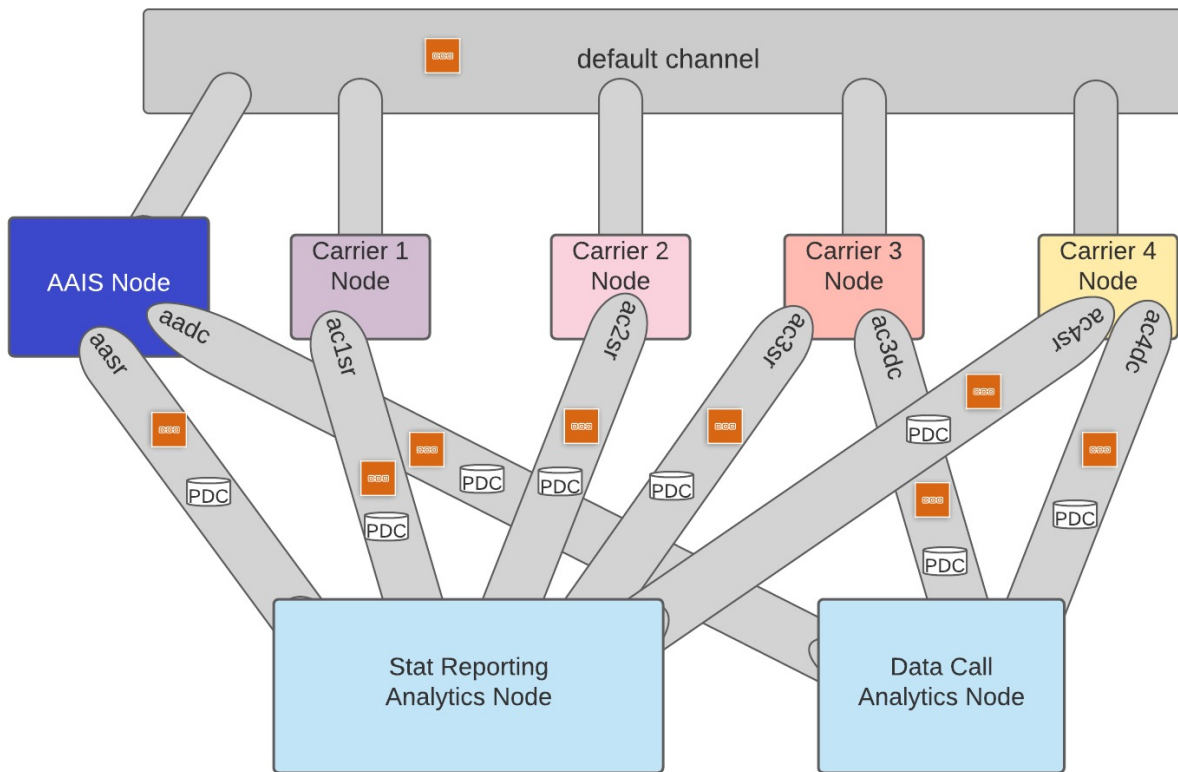
# Current work

- › Migrate
  - › Move AAIS and Analytics Nodes from IBM to AAIS AWS
  - › Create Carrier Reference Node in AWS separate account
  - › Create Reference Implementation as free standing for kicking tires
- › Regulatory Reporting
- › Engage in POCs
- › Open Source
  - › Application code
  - › Infrastructure as code
  - › Data Specifications
- › Document
  - › Architecture
  - › Requirements
  - › DevOps
  - › Participation
- › Govern
  - › Technical Steering Committee

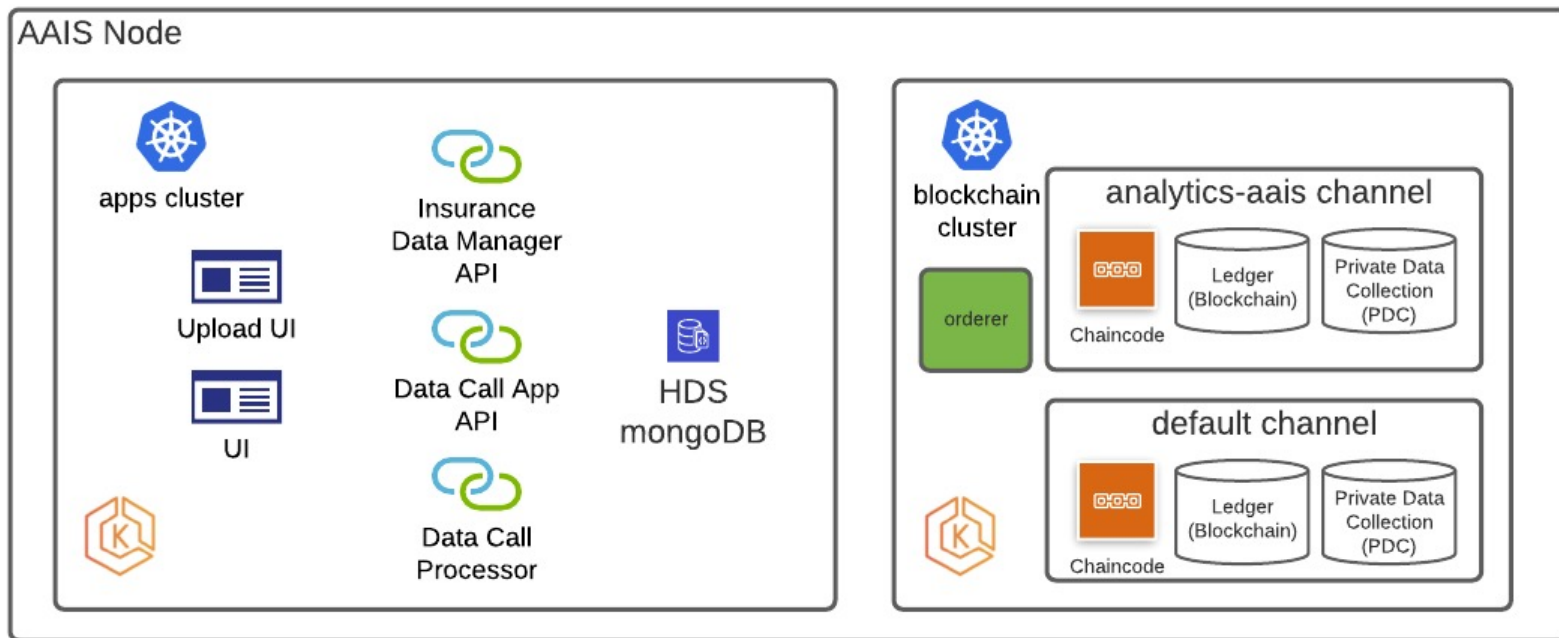
# openIDL Ecosystem



# openIDL Channels



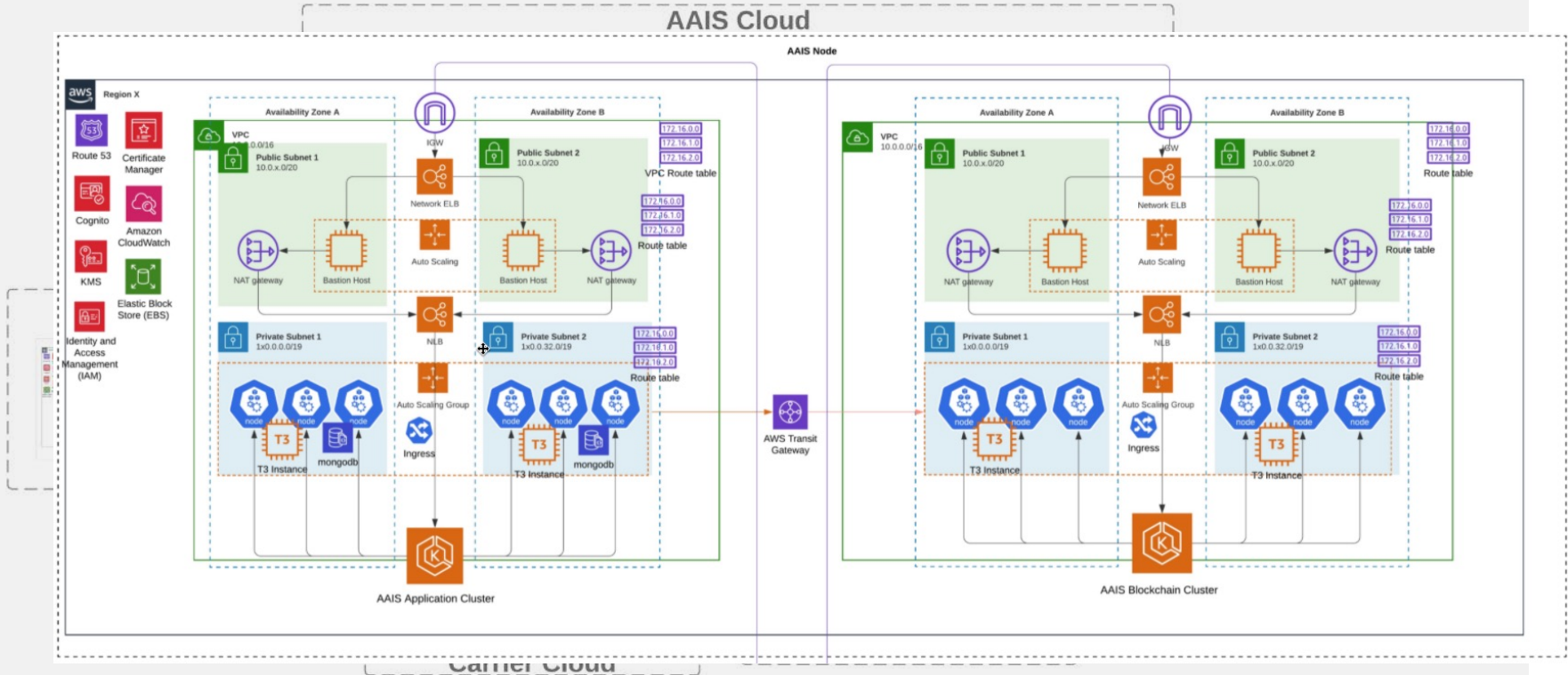
# AAIS Node



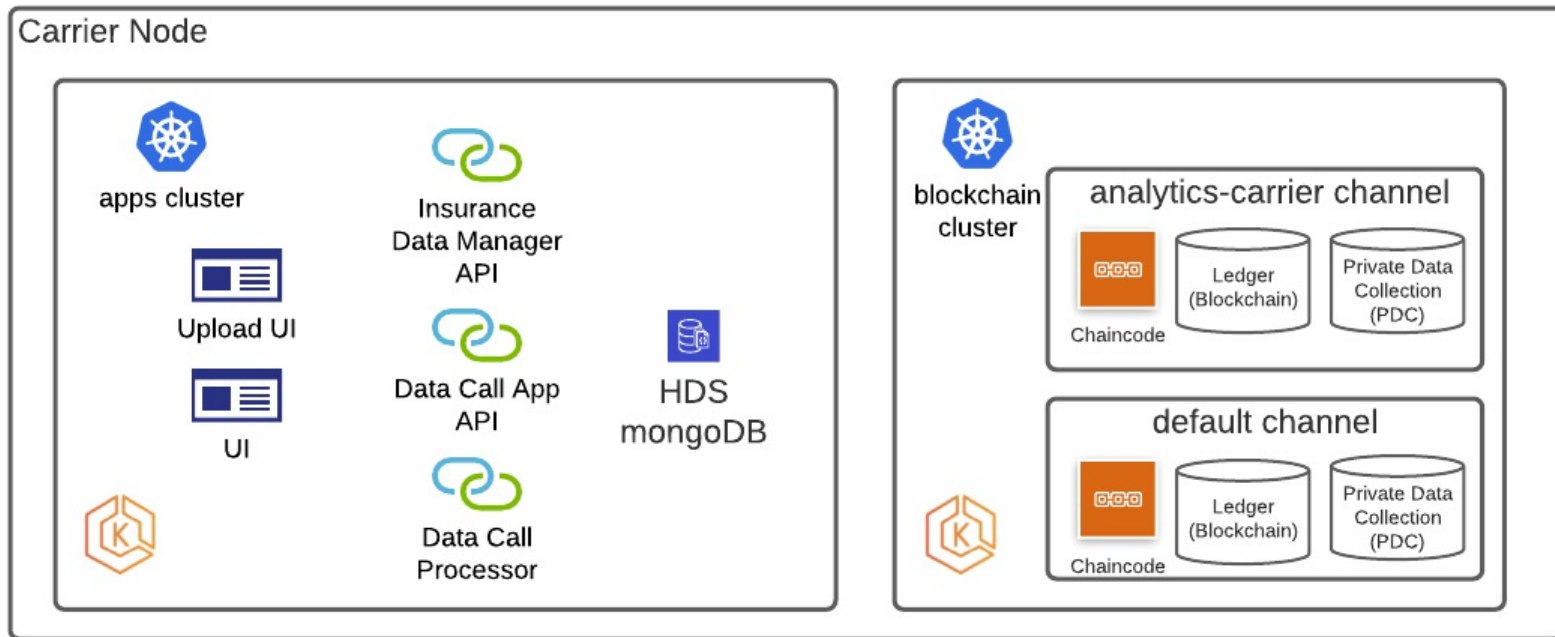
Carrier Cloud



# AAIS Node

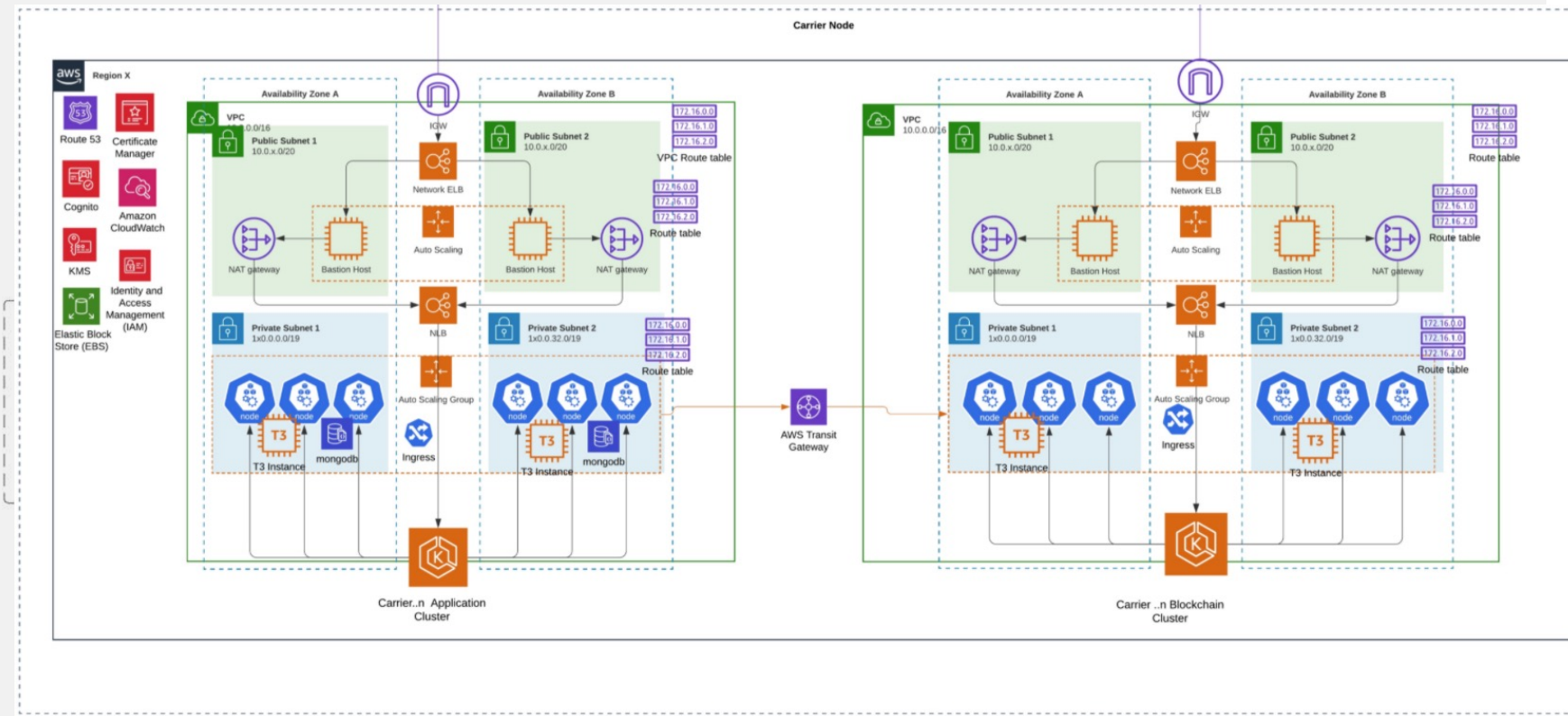


# Carrier Node

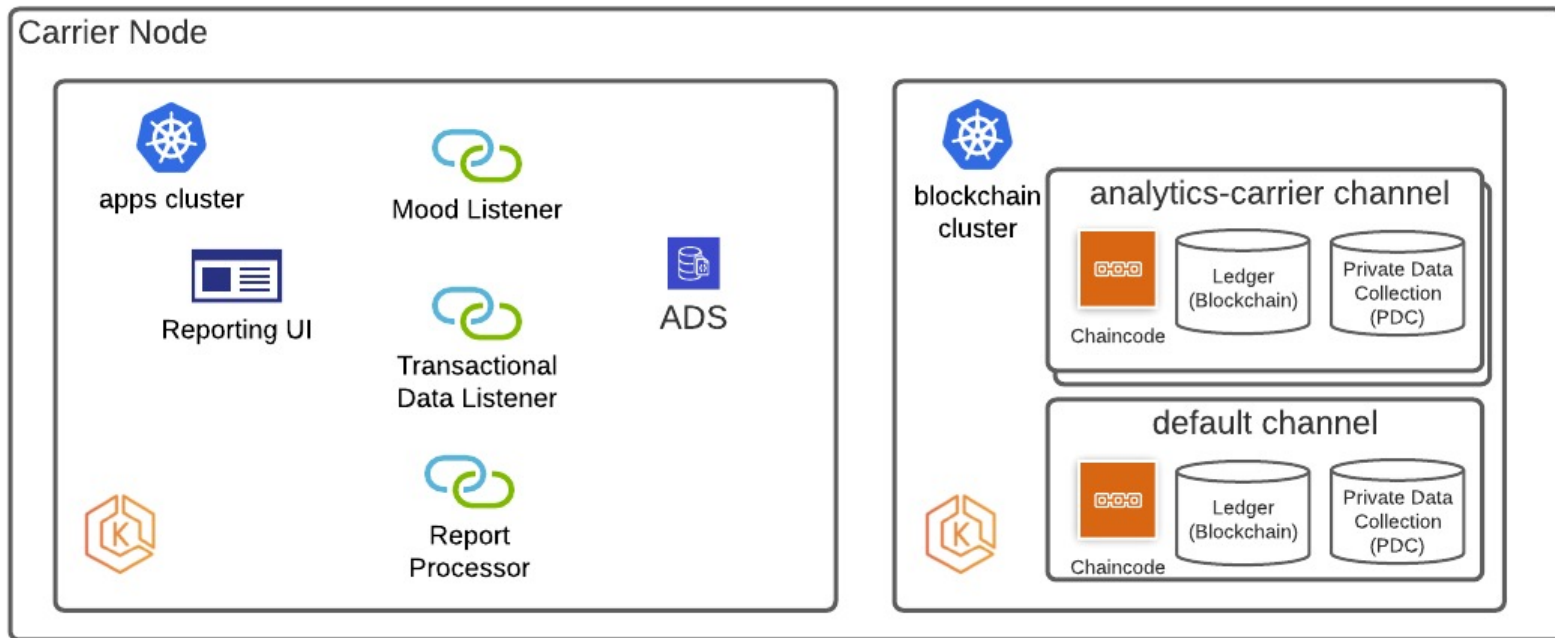


# Carrier Node

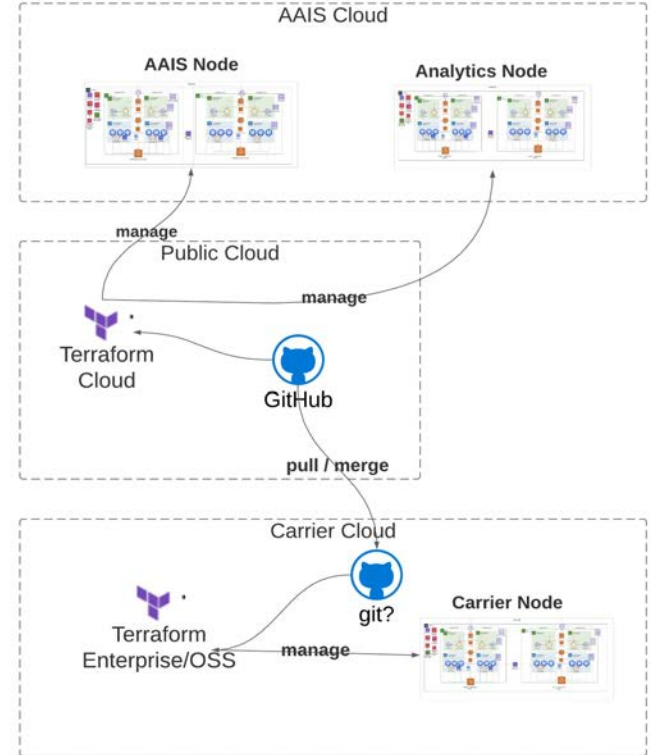
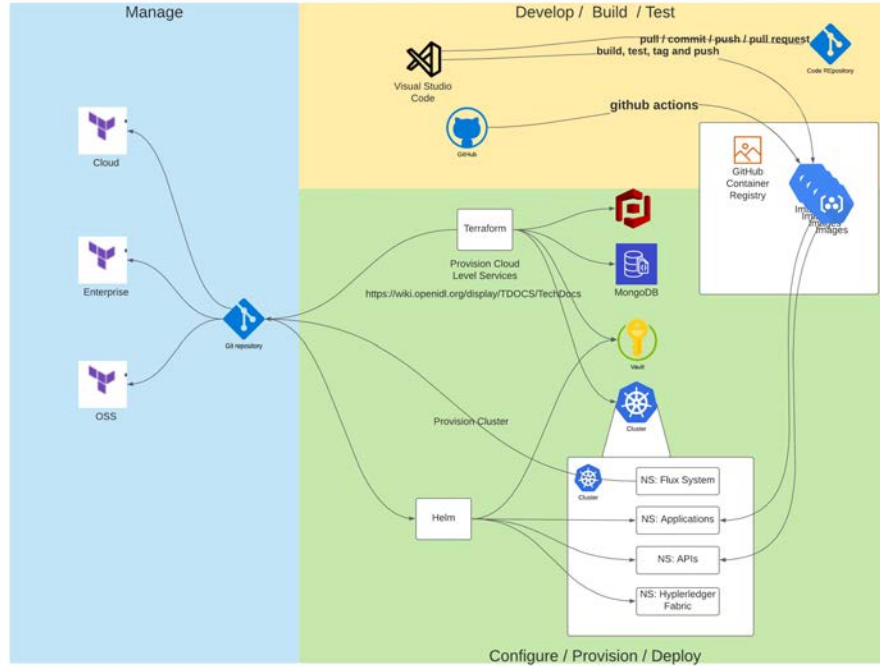
Carrier Node



# Analytics Node

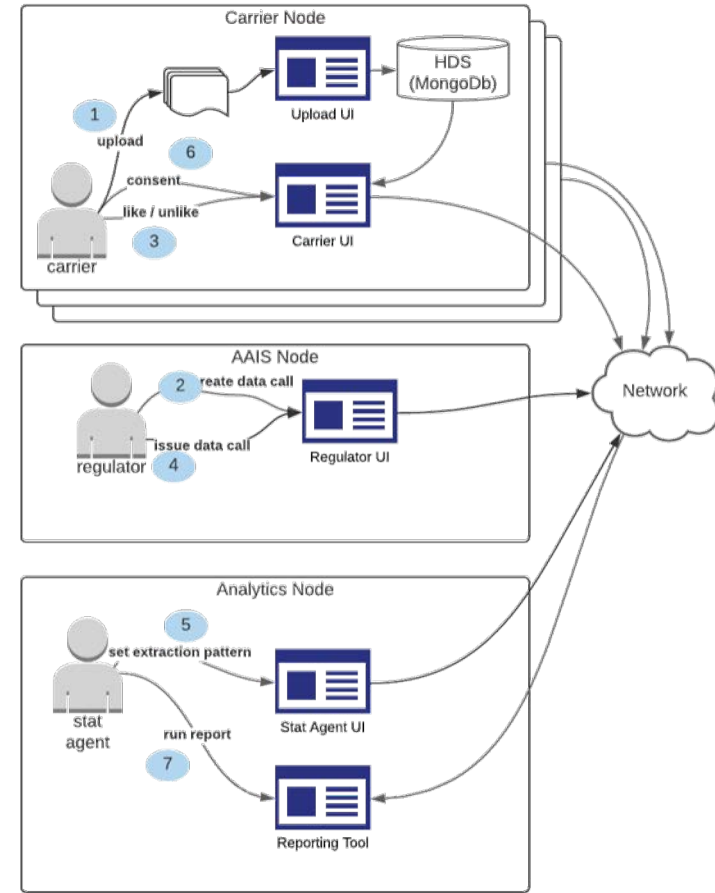


# openIDL DevOps



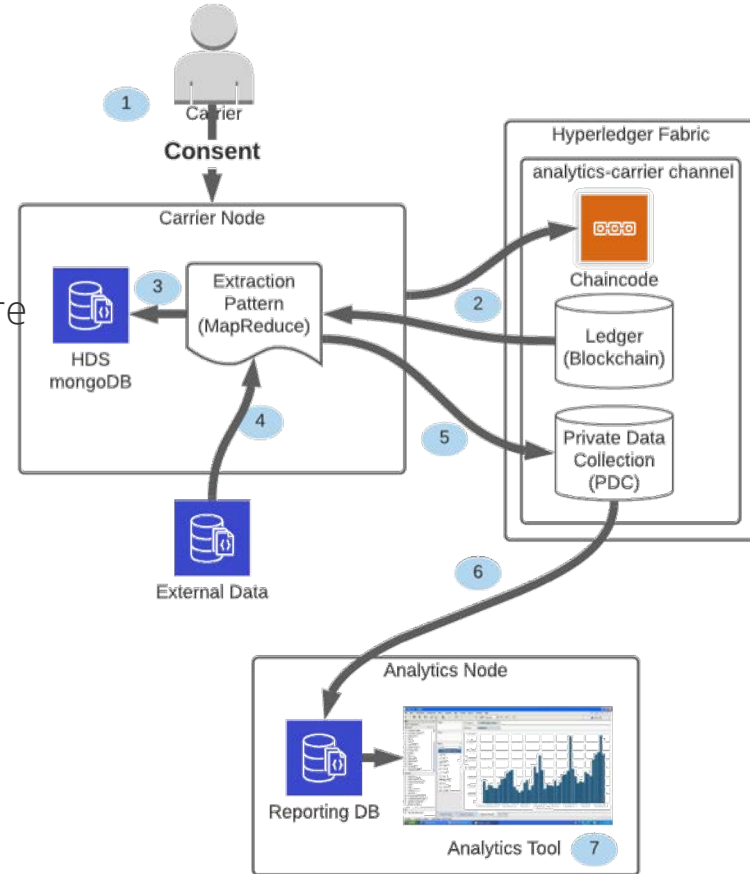
# openIDL – Data Call Scenario

1. Carriers Upload Data into Harmonized Data Store
2. Regulator Creates Data Call
3. Carriers Like/Unlike Data Call  
*(Could lead to multiple drafts of Data Call.)*
4. Regulator Issues Data Call
5. Stat agent (e.g.) develops “Extraction Pattern” to query data across carriers...transform into input for report.  
*(Extraction pattern is attached to Data Call.)*
6. Carriers review Data Call & Extraction Pattern.  
If satisfied, they consent.
7. System Executes Extraction Pattern/Sends Result to Analytics Node. *(Stat agent runs/delivers report.)*



# openIDL – Extraction Pattern (Report Query)

1. Carrier Consents to Data Call
2. Extraction Pattern Retrieved from Ledger.
3. Extraction Pattern Run Against Harmonized Data Store
4. Additional Decoration of Data with External Data can happen here...like PPP
5. Result of Extraction Pattern Placed into Private Data Collection
  - Hyperledger Fabric replicates for Analytics Node
6. Result Loaded into Reporting DB on Analytics Node.
7. Analytics Tool Generates Report.



# Resources

- › openIDL website: <https://www.openIDL.org>
- › openIDL Wiki: <https://wiki.openIDL.org>
- › Wiki TechDocs: <https://wiki.openidl.org/display/TDOCS>
- › openIDL GitHub repo: <https://github.com/openidl-org>
- › openIDL Mailing Lists: <https://lists.openIDL.org>
- › Reach out through the mailing lists, participate and contribute!



# Summary/Status of Ongoing & Upcoming Efforts

- › Flood Working Group - Integrating Catastrophe Models & Third-party Data
  - › Brandon Katz, Executive VP – KatRisk (Chair)
  - › Matthew Nielsen, Sr. Director, Gov't & Regulatory Affairs – RMS (Co-Chair)
- › State-led Pilots & POCs
  - › NAIC and 10-state COVID-19 Business Interruption POC (completed)
  - › North Dakota: Uninsured Motorists (DOT approved 8/12!)
  - › Mississippi: Catastrophic Weather/Flood (in process)
  - › California: Wildfire (planning)
  - › Connecticut: Coastal Erosion/Flood (planning)
- › Infrastructure Working Groups:
  - › Tooling, Deployment, Management and UIs
  - › Extending Functionality, Organizations and Roles and Operations

# Establishing the Technical Backlog

- › AAIS and Chainyard – ongoing list of “technical debt” items
  - › Removing dependencies from Reference Implementation
- › Facilitating Deployment and Maintenance
  - › Chainyard and Senofi, partnering in production structures
- › Extraction, Enrichment and Interaction Patterns
  - › Going beyond Map/Reduce functionality, timing and operations
- › Scalability, Portability and Applications (annual, event, dashboard etc.)
  - › Ingest/Extract data volumes, software/cloud dependencies
- › New Peers: Regulators, Stat Agents; New Paths: State/External data resources
- › Regulatory “Query” features – schema views, query builder, QoS/depth reports



**openIDL TSC Wiki Page – planning, features and roadmaps**  
**GitHub – issues/bugs and work items**

# Items for Committee Consideration

- › Questions/Comments/Changes to Charter – Ratify at next meeting?
  - › Ask each member to make one edit to document on wiki before approval.
- › Reassign Regulatory Reporting Data Model Sub-Committee to Regulatory Reporting Steering Committee?
  - › Working towards official adoption of the RRSC and the RRDM into collaborative regulatory operations and the RRDM similar to existing “Stat Plans”
- › Other items?

# Community Discussion (Time Allowing)

- › TSC Community Discussion:
  - › Questions, examples, ideas, roadmaps, etc.
  - › Experiences, challenges, news, etc.
  - › Wide open!
  - › Quick demos – future demos will be planned/recorded

# Wrap-Up: To-Do's, Communications & Adjourn

- › Action Items:
  - › Attend and participate in RRSC on 8/16 (see wiki) for Data Model
  - › Dig in and put ideas, questions and “do an edit” on the Wiki
  - › Sign up for other openIDL lists: Main, TSC, RRSC etc.
  - › Schedule time with TSC Members/Community to learn more
- › Communications:
  - › Update Wiki with minutes, deck and decisions
  - › Any quotes or attributions?
- › Motion to Adjourn

# Thank you

## Interact with the Community

[openidl.org/participate](https://openidl.org/participate)



Mailing Lists



Slack



Github



Wiki