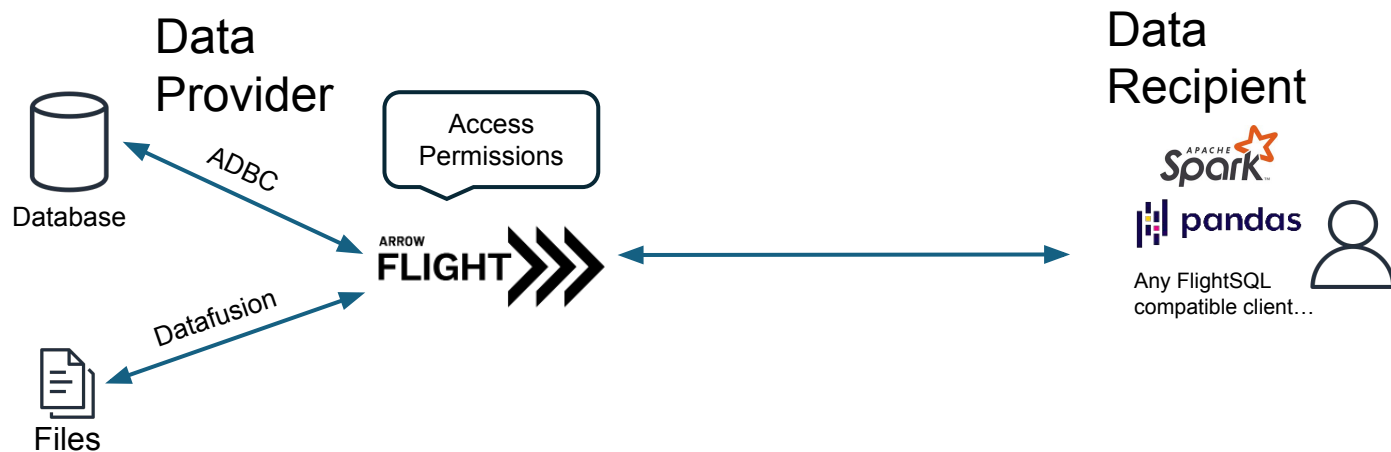# Intro
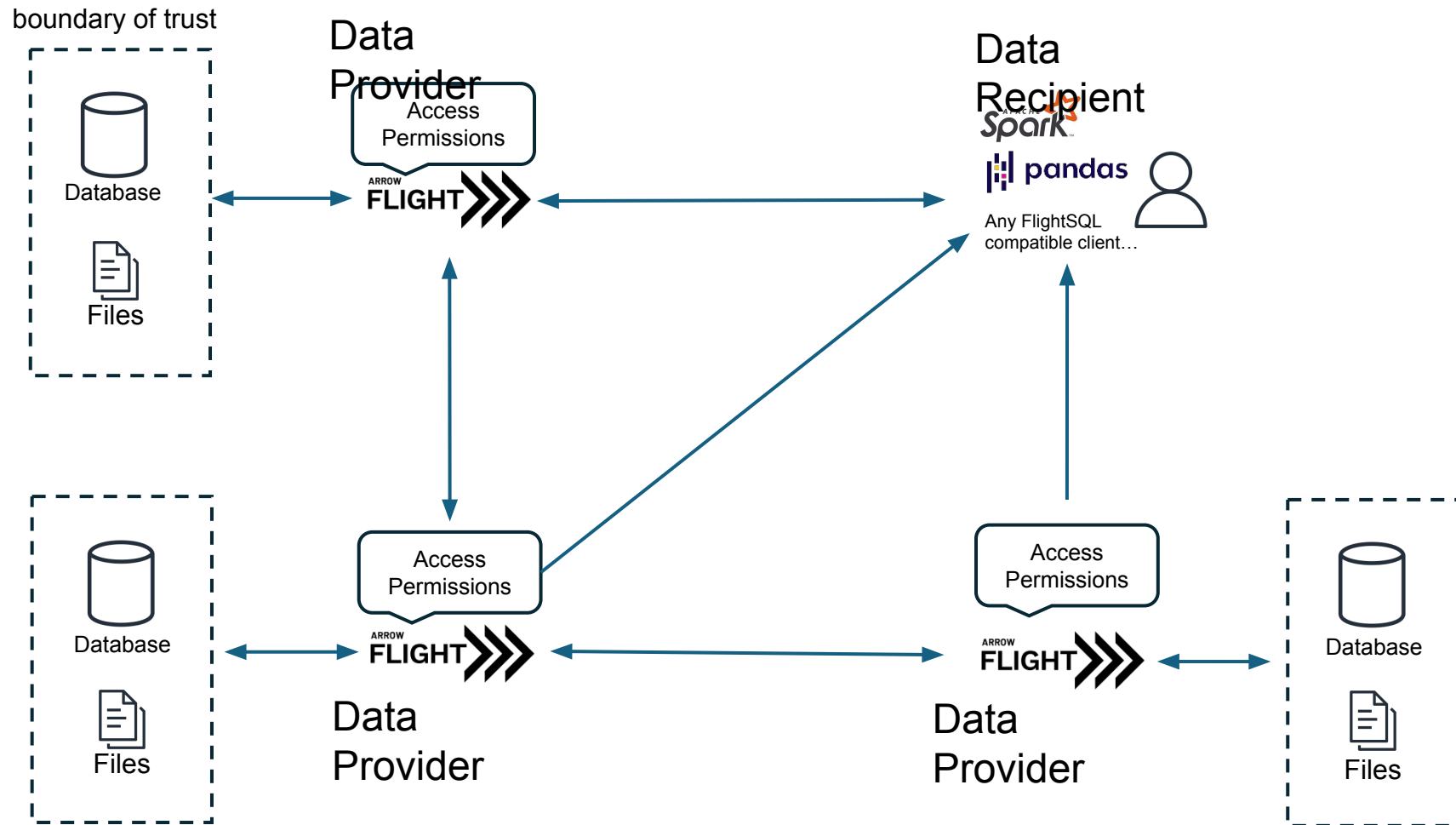

- Devin D'Angelo (github.com/devinjdangelo)
- Data Scientist -> Data Engineer
- I build data infrastructure in the public sector

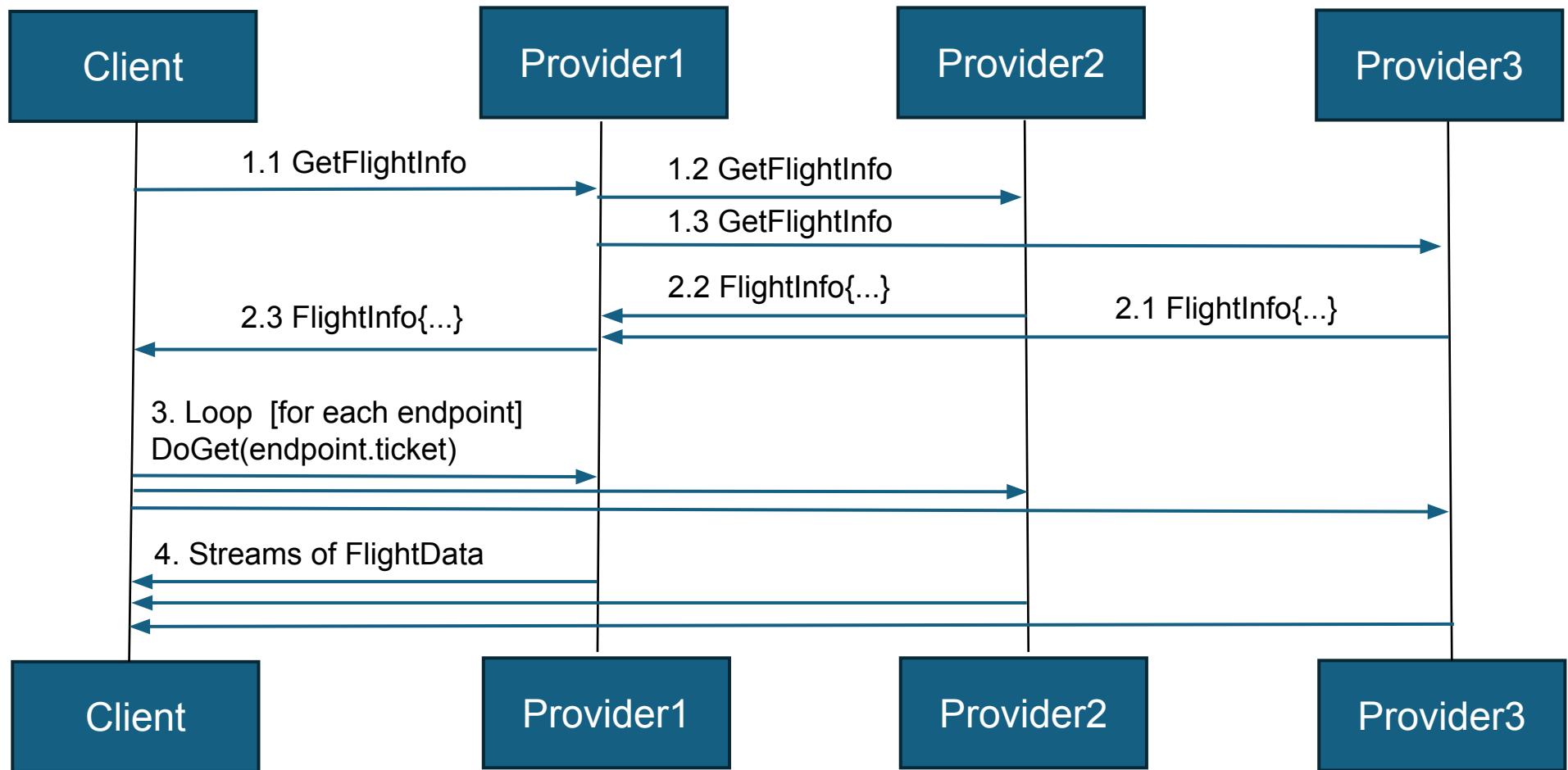# We need a better open standard for secure data sharing

- Big socially important questions require data sharing

- Regulation, policy, and laws require complex access control rules

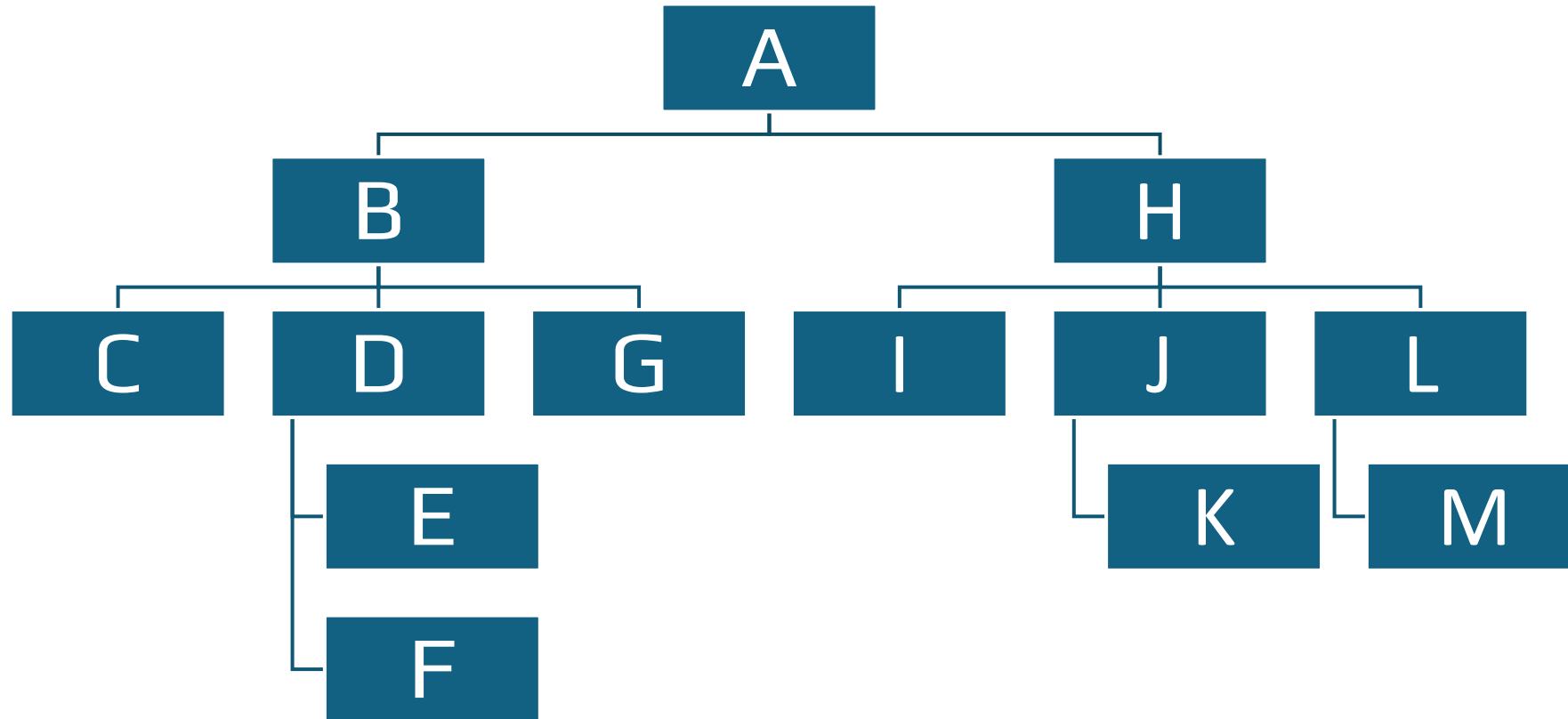- Vendor specific solutions are ineffective at public sector scale

Querying across boundaries of technology and trust should be as easy as querying a single database

A unified interface to disparate data

Integrate locally, discover globally

Communicating Query Plans

- It is wasteful, error prone, and high effort to map LogicalPlans back to many front-end query representations (e.g. SQL).
- Increased adoption of substrait will significantly simplify this effort

Ongoing Work

- https://github.com/datafusion-contrib/datafusion-federation
- https://github.com/datawebdb/dataweb