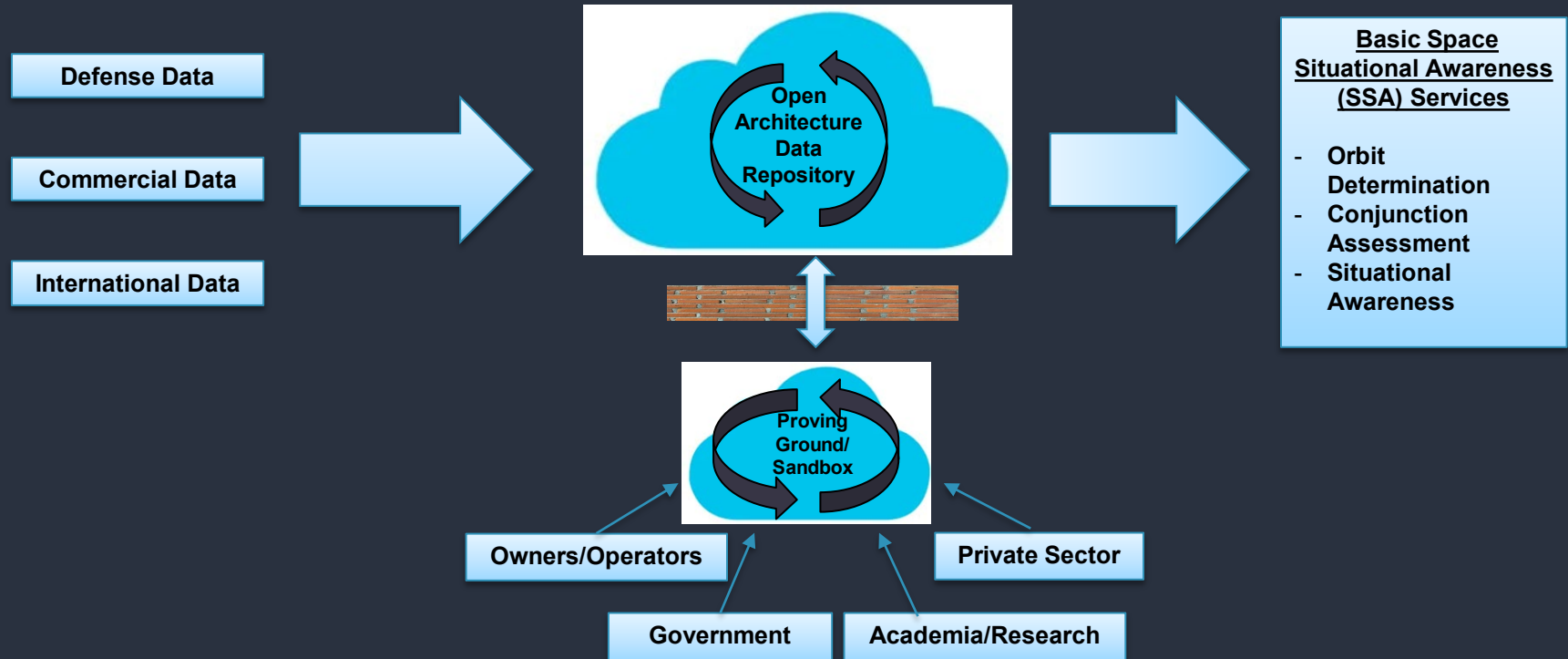
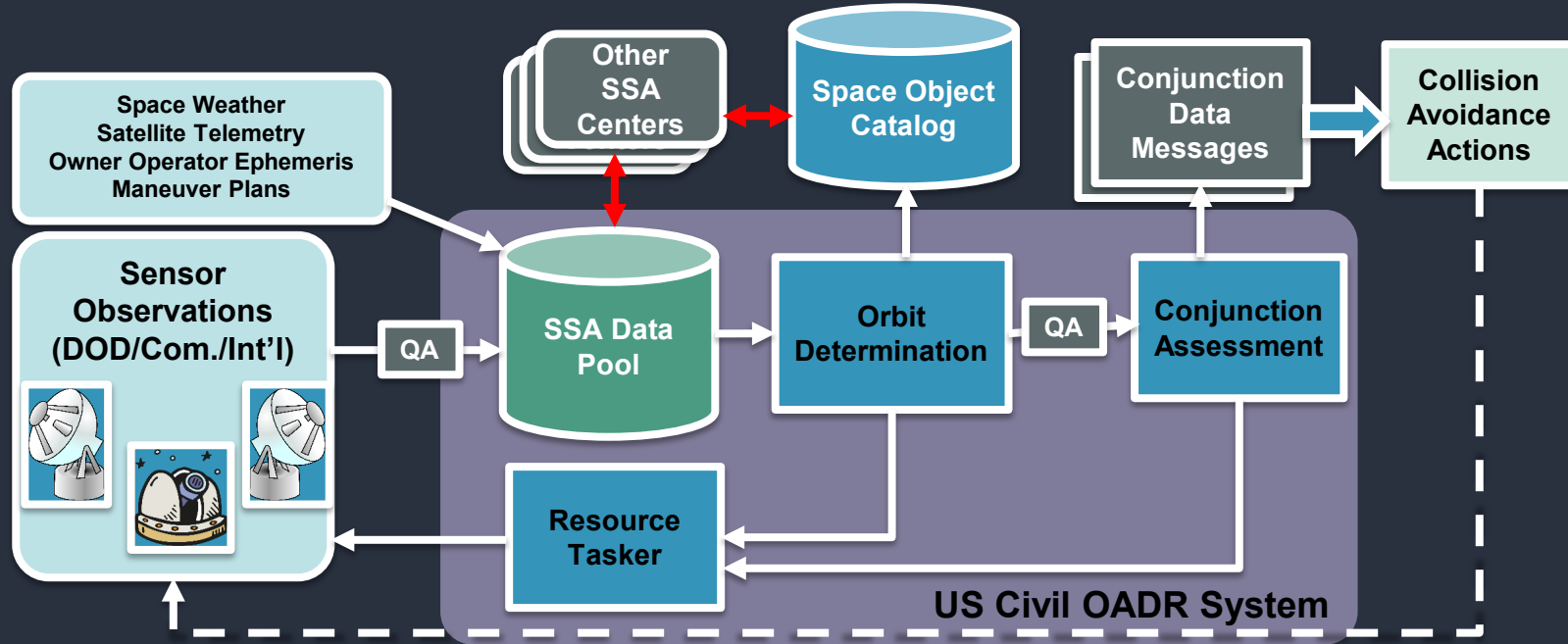


OADR Prototype Overview



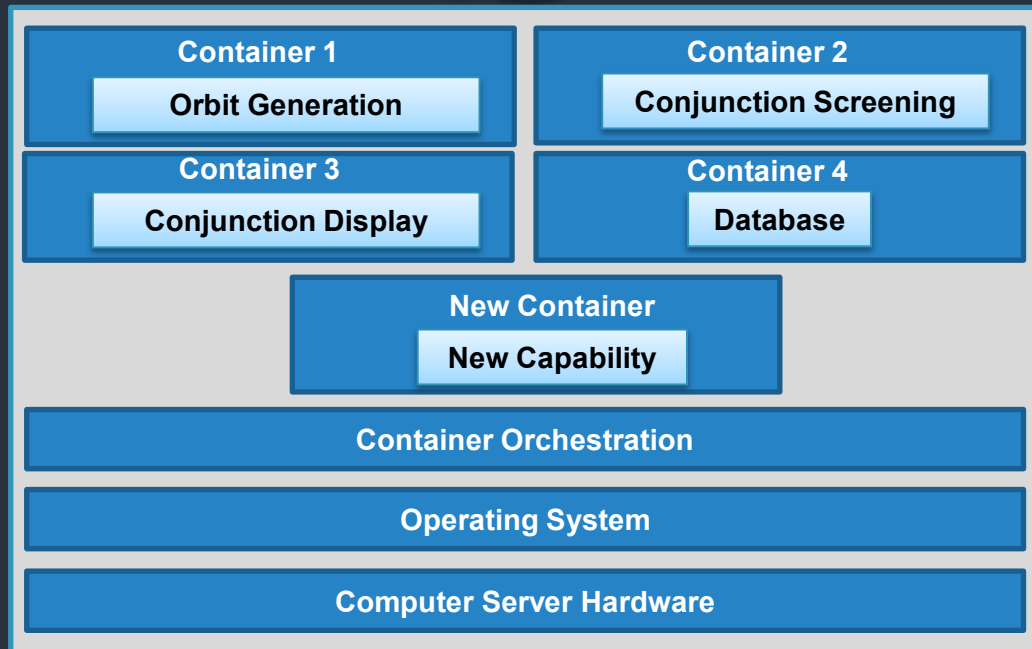
Notional SSA Safety Process



OADR Cloud Software Architecture

Containerized services

Scalable



Reliable

Flexible

Scale out to more data, capabilities and users by adding servers and containers



Advantages of a Containerized Microservice Architecture

Containers package software with libraries and operating system required to execute

- Portable to any computer
- Efficient
- Allow developers to create and deploy software applications faster
- More secure and reliable
- Avoid cloud vendor lock-in

Microservices break a complex software application into small, specialized services that communicate over a common interface

- Can update one part of software without affecting the whole application
- More reliable
- Faster development, testing and deployment

This is the industry standard way to develop modern data systems in the cloud.



OADR Prototype Data System

Data Librarian



Batch Data



Realtime Data



DevOps Engineer

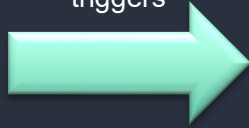


Data Scientist

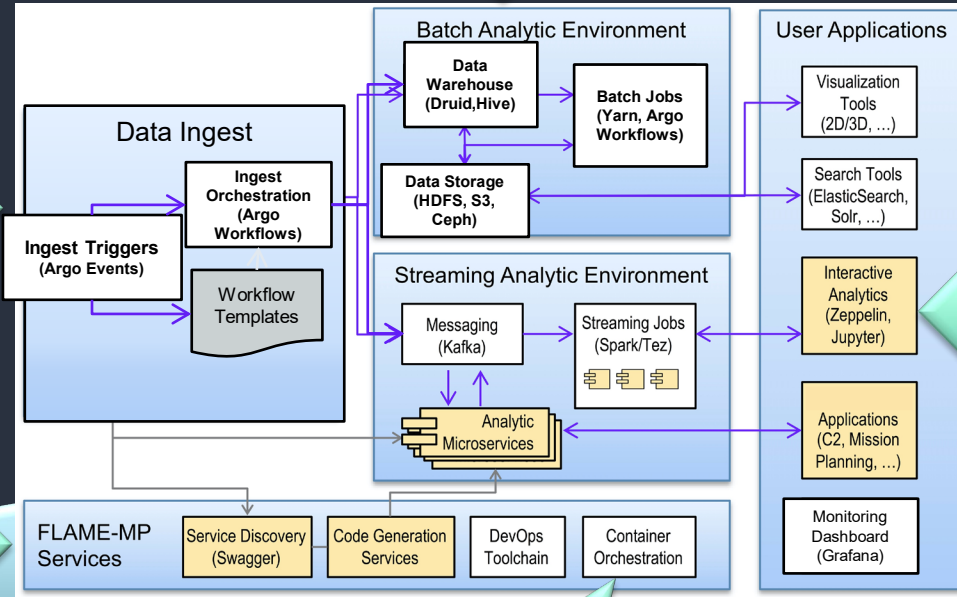
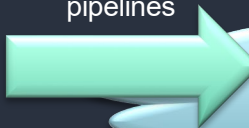


Analyze / process data at scale

Set up and manage data workflows, templates, and triggers



Integrated CI/CD pipelines



Consume data products



Mission User(s)

Can be deployed to any cloud provider or on-prem

Develop and deploy apps / analytics



Analytic Developer

