



ArcGIS GeoEvent Extension for Server – An Introduction

Esri Pacific User Conference

October 13 – 14, 2014 | Sacramento

Web Maps and Services



Web GIS

Is a real-time GIS



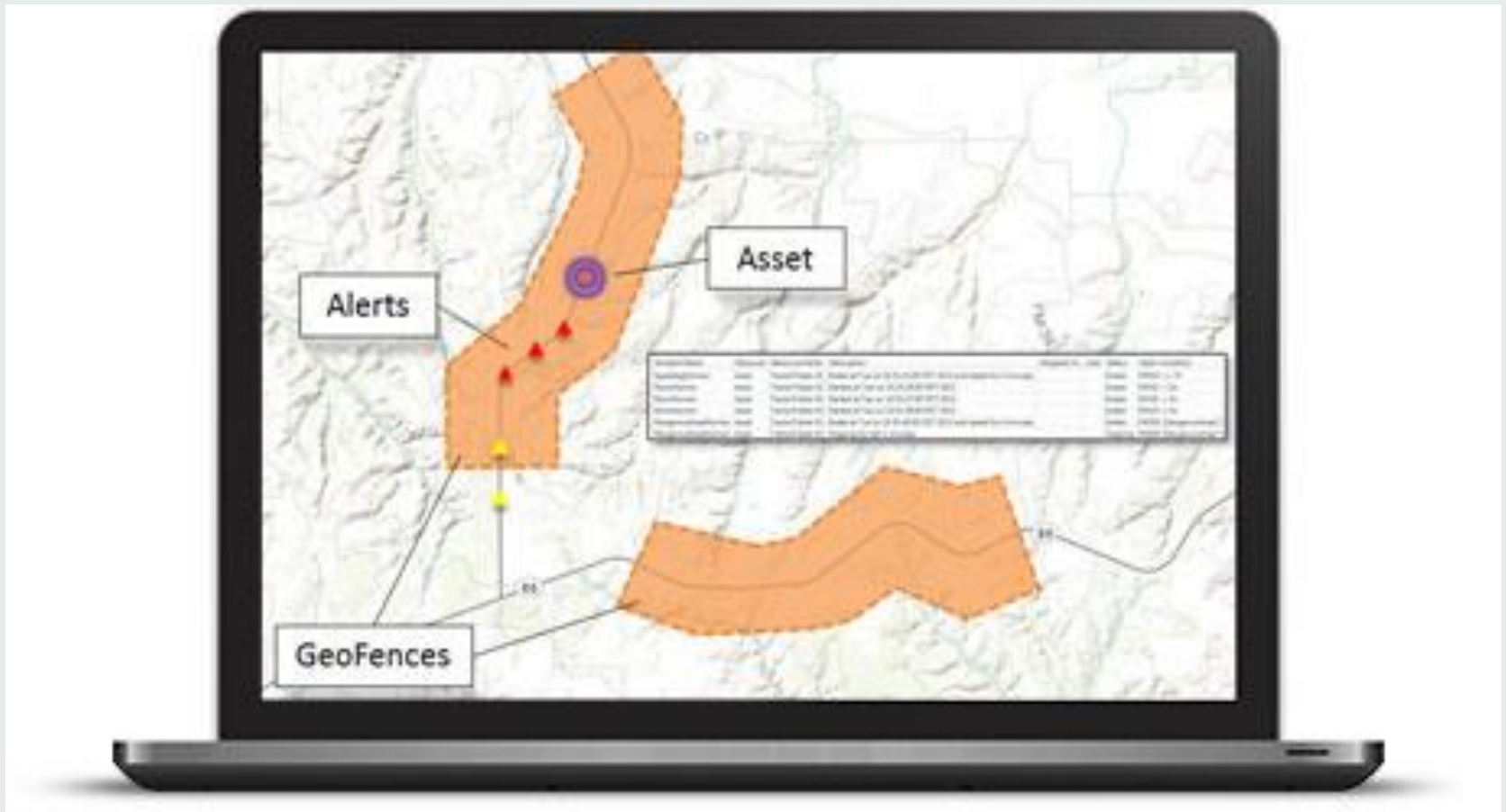
Real-time data

How to work with real-time GIS? Processing/analysis



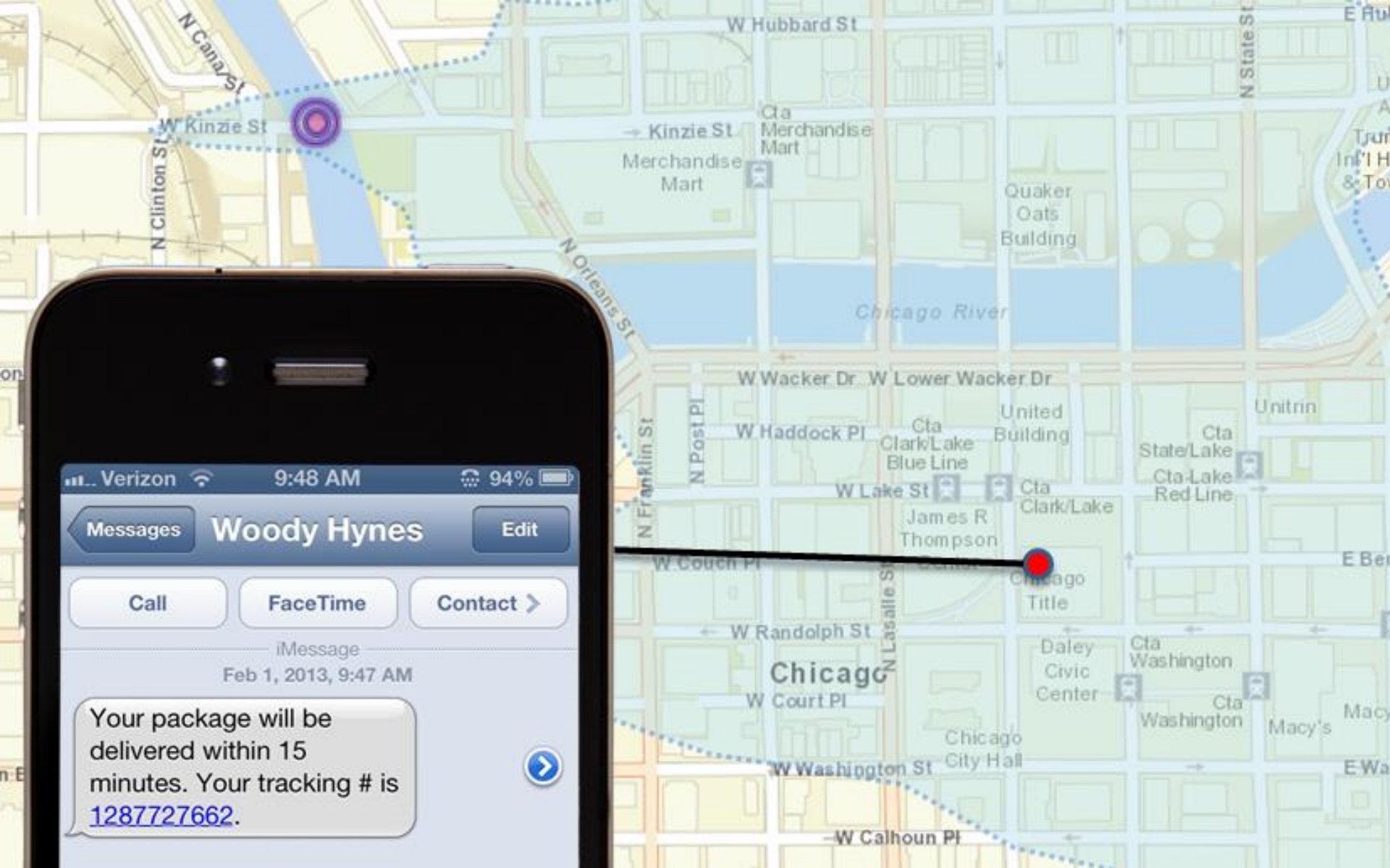
Challenges of real-time GIS

Connecting and receiving



Challenge of real-time GIS

Continuous analysis



Challenges of real-time GIS

Sending updates and alerts

Demo

GeoEvent Processor/Dashboard

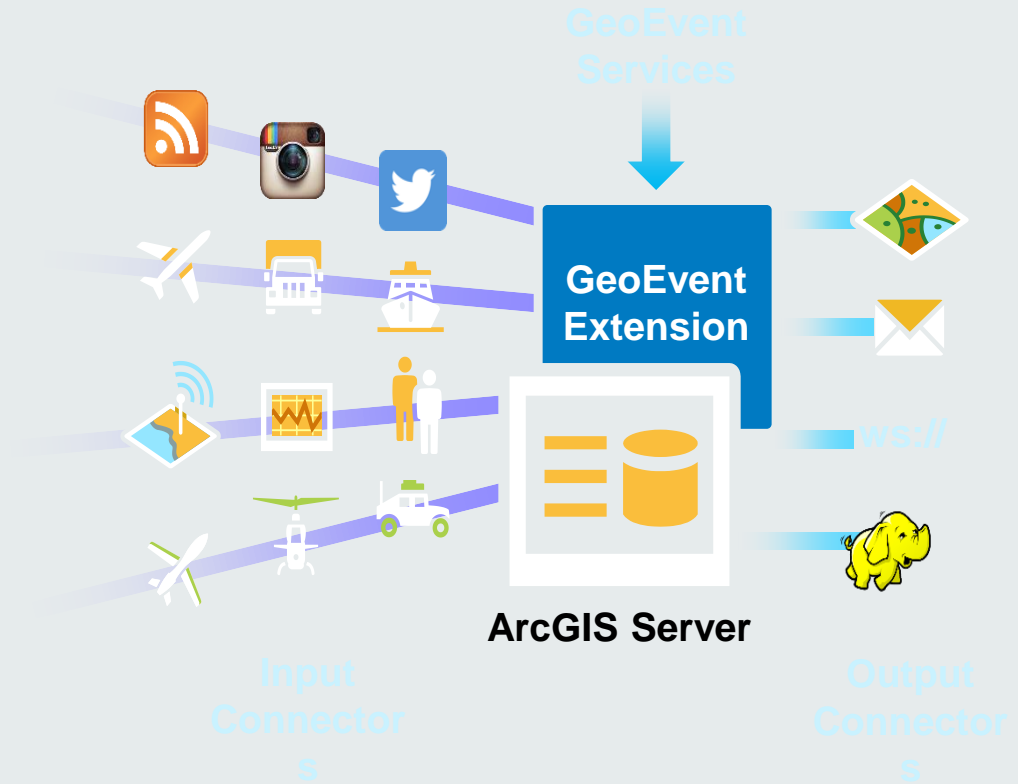




Working with real-time data

Using GeoEvent Extension

- Integrates real-time streaming data into ArcGIS
- Performs continuous processing and real-time analytics
- Sends updates and alerts to those who need it where they need it



ArcGIS supports real-time GIS

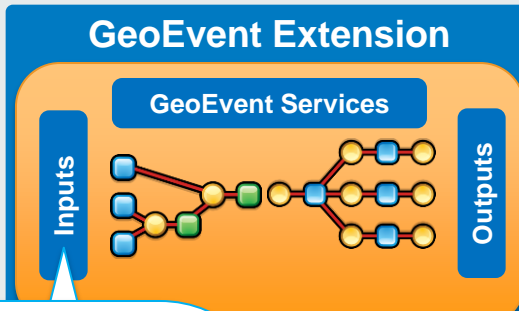
GeoEvent Extension



Receiving real-time data

Input connectors

GeoEvent Extension



You can create your own connectors.

Out of the Box

- Receive RSS
- Receive text from a TCP Socket
- Receive text from a UDP Socket
- `http://` Receive Features on a REST endpoint
- `http://` Receive JSON on a REST endpoint
- `ws://` Receive JSON on a Web Socket
- `ws://` Receive JSON on external Web Socket
- Poll an ArcGIS Server for Features
- `http://` Poll an external website for JSON
- Watch a folder for new .csv files
- Watch a folder for new .json files

Esri Gallery



- Twitter
- Instagram
- CAP
- CoT Cursor-on-Target
- VMF VMF
- GeoMessage GeoMessage
- ActiveMQ ActiveMQ
- RabbitMQ
- NMEA
- TAIP (Trimble)
- RAP (Sierra Wireless)

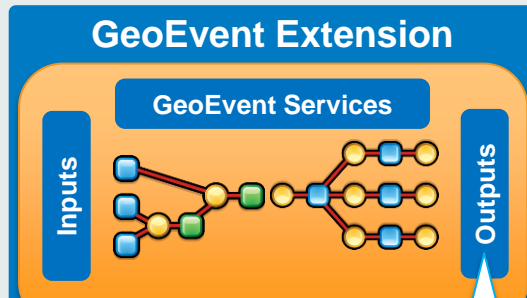
Partner Gallery

- GNIP GNIP
- GeoFeedia
- exactEarth
- ASDI (FAA)
- OSIsoft OSIsoft
- Valarm
- Harris Harris
- CompassCom CompassCom
- networkfleet. NetworkFleet
- ZONAR Zonar



Sending real-time data

Output connectors



You can create your own connectors.

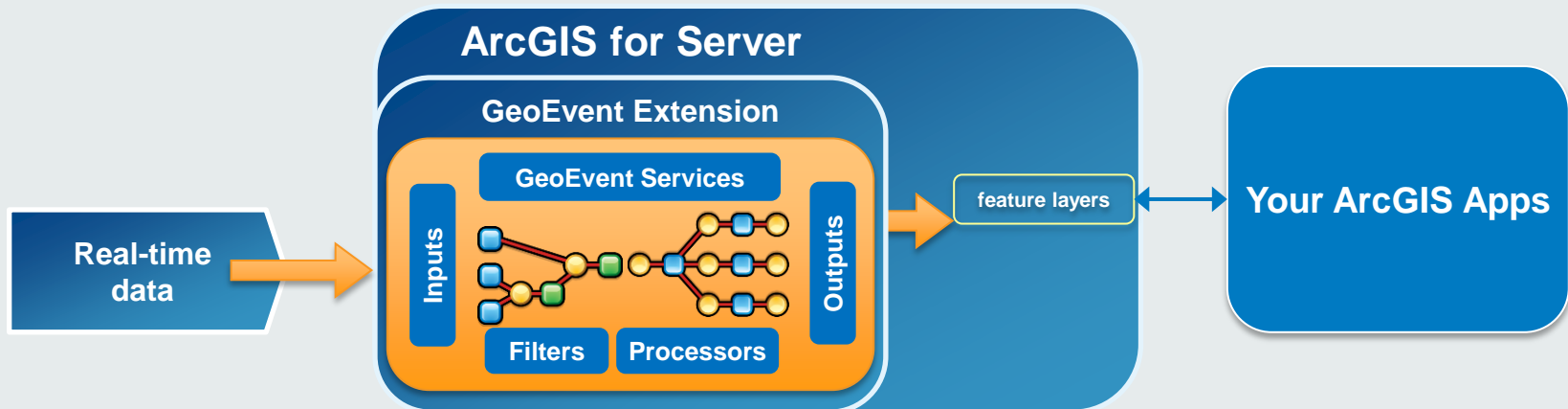
- Out of the Box**
- Add a feature
 - Update a feature
 - Send an email
 - Send an instant message
 - Send a text message
 - Publish JSON to a Web Socket
 - Push JSON to an external Web Socket
 - Publish text on a TCP Socket
 - Publish text on a UDP Socket
 - Publish JSON to an external website
 - Publish on a REST endpoint
 - Write to a .csv file
 - Write to a .json file

- Esri Gallery**
- Twitter
 - ActiveMQ
 - RabbitMQ
 - Hadoop
 - MongoDB

- Partner**
- agis CESIUM

Sending real-time data

Output connectors



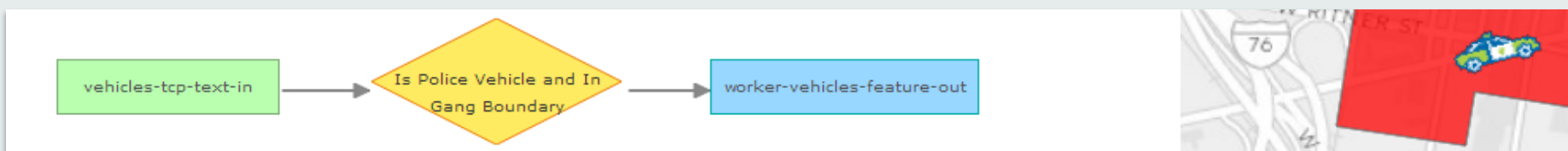
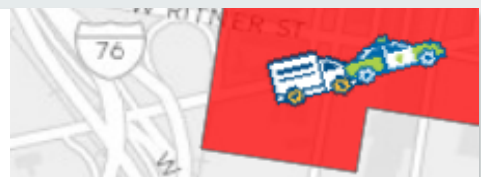
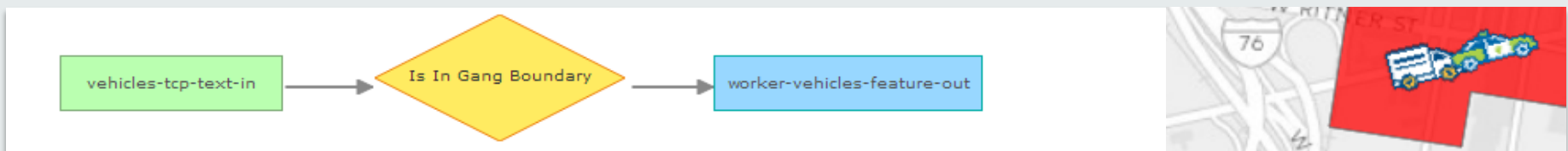
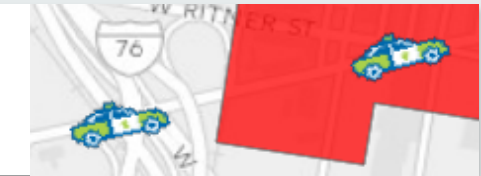
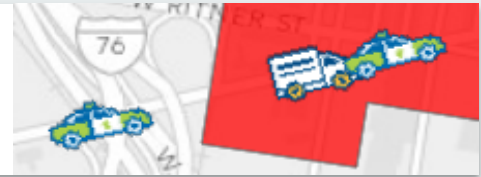
Real-time data in the ArcGIS Platform

Send real-time data as features



Performing continuous processing and analysis

Using GeoEvent Extension



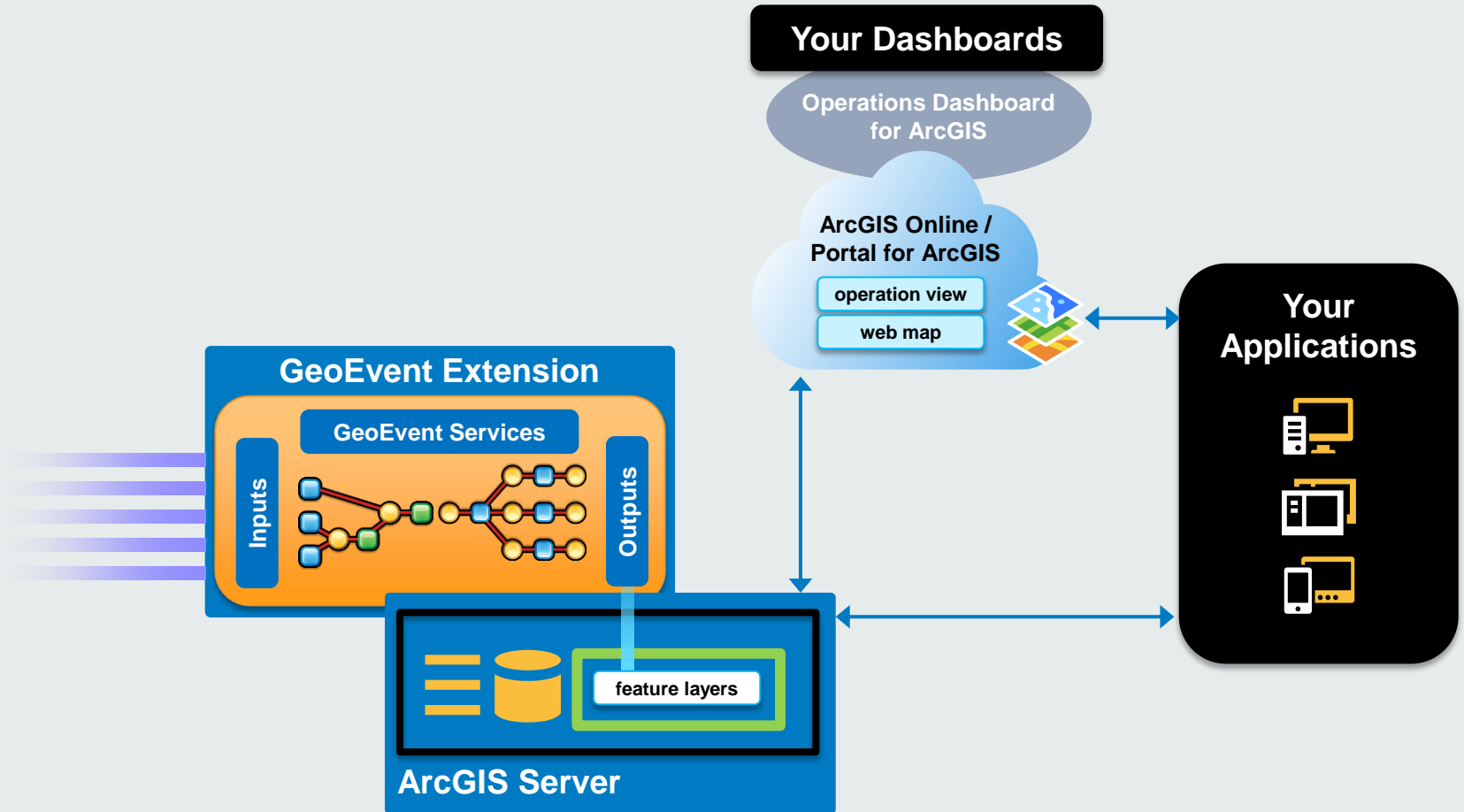
Applying real-time analytics

Modify or create new

Demo

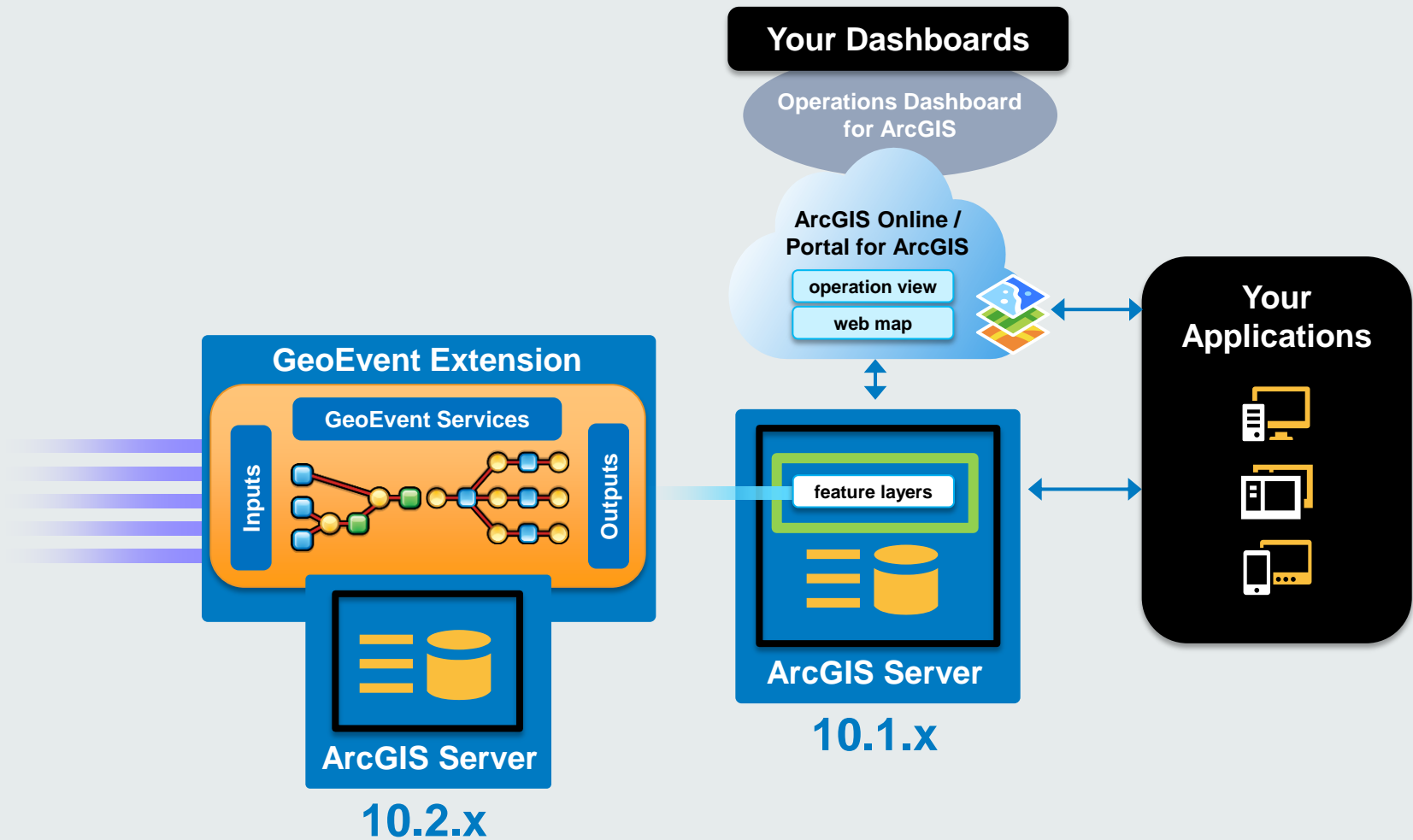
How does it all work?





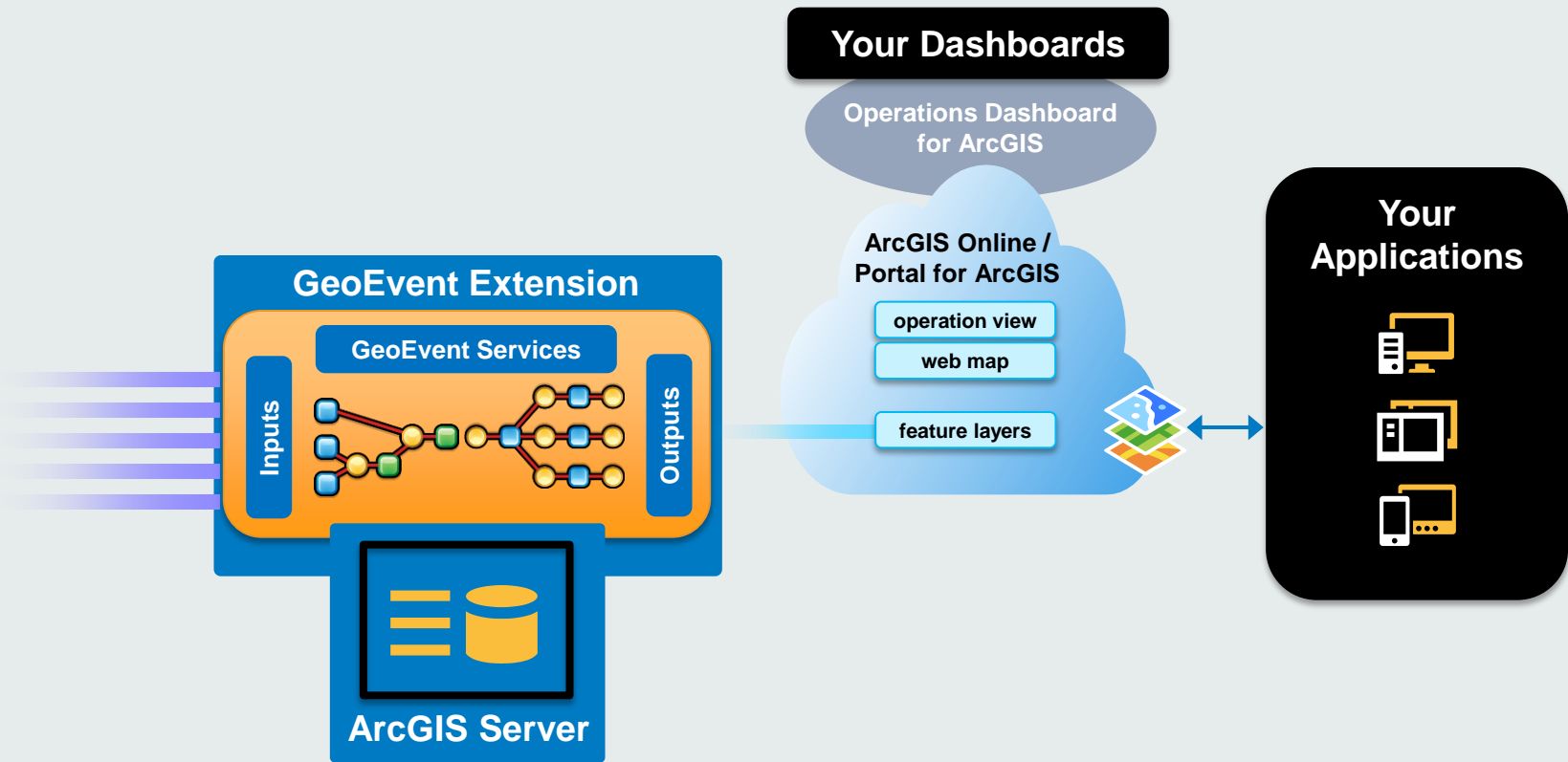
Deployment patterns

Using local feature services



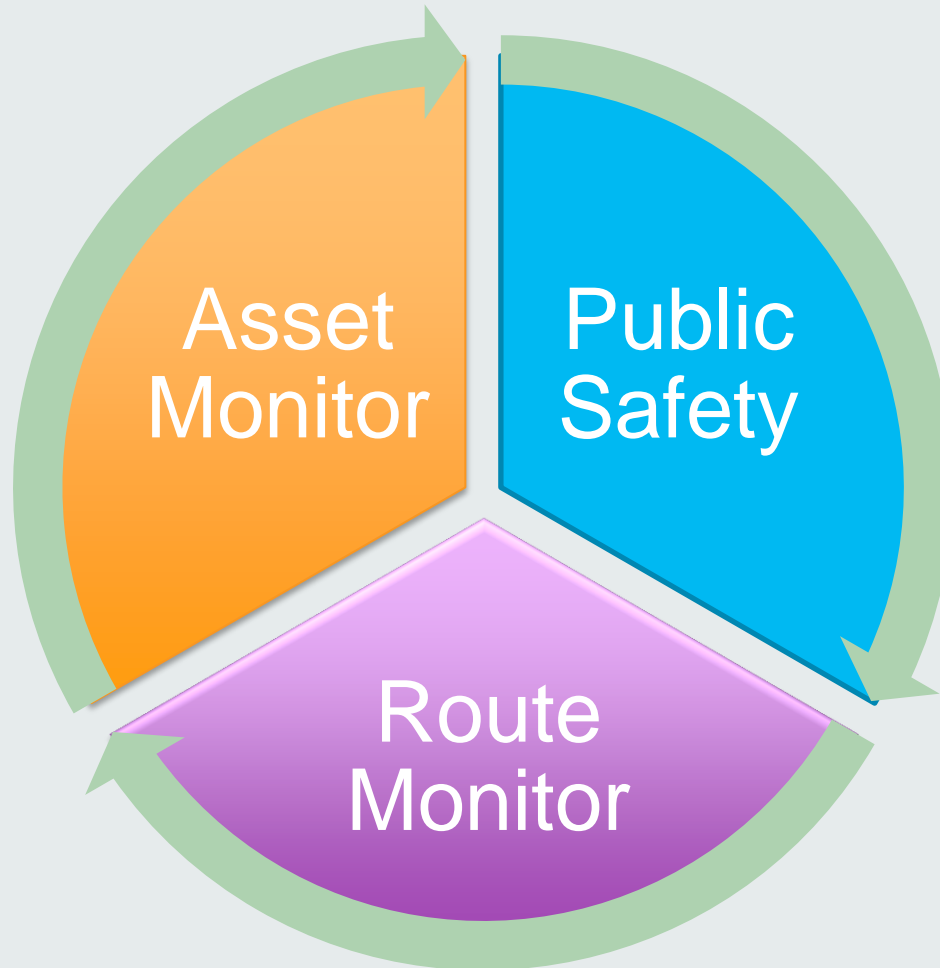
Deployment patterns

Using remote feature services



Deployment patterns

Using ArcGIS Online/Portal for ArcGIS feature services



Solutions and sample apps

Apply real-time GIS



Solutions and sample apps

Apply real-time GIS

Web Maps and Services



Web GIS

Is a real-time GIS



Q & A

Discussion



Understanding our world.