

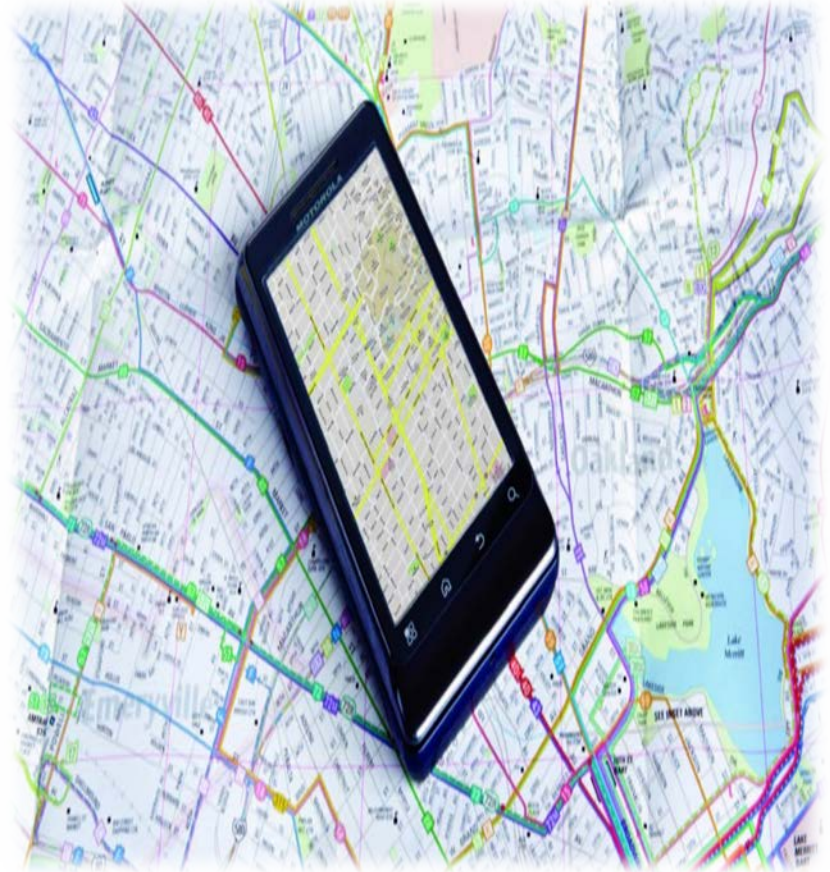
Connected Corridors Review with SANDAG

2/20/2013

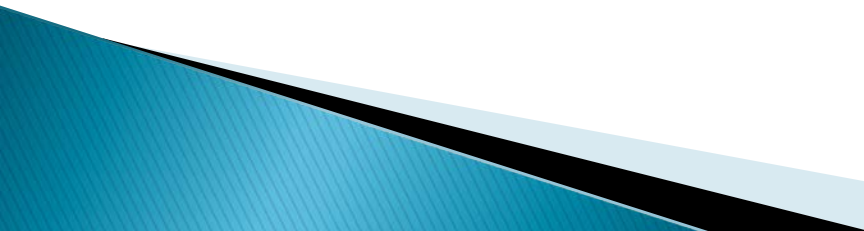


California Connected Corridors Vehicles, Information & People (CC-VIP) Pilot

- Enable existing transportation infrastructure and vehicles to work together in a highly coordinated manner
- Deliver improved corridor performance (safety and mobility)
- Improve accountability
- Evolve Caltrans to Real-Time operations and management
- Enhance regional , local and private sector partnerships

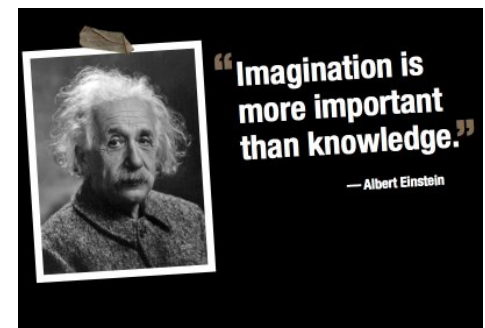


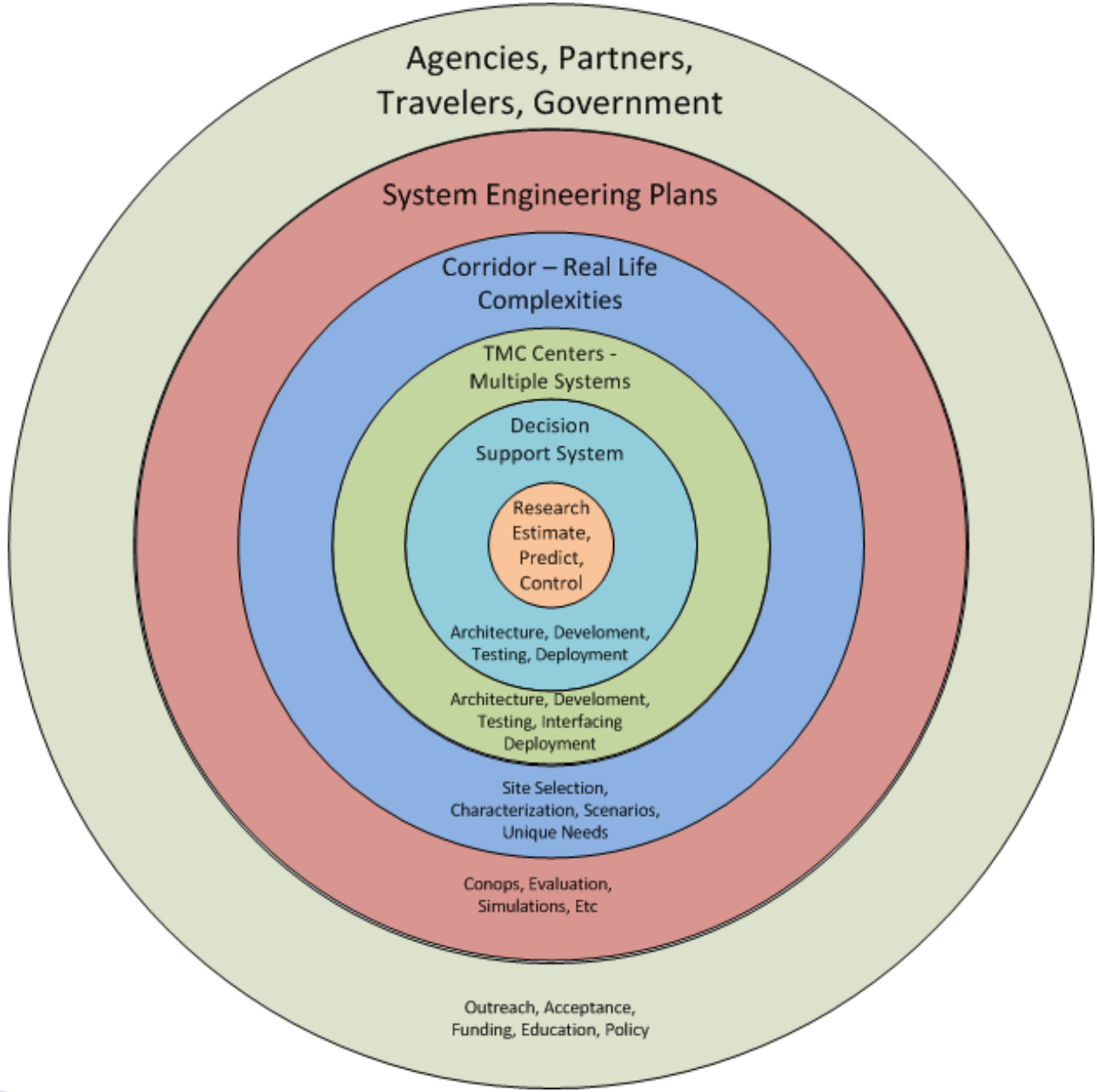
ICM California Components

- ▶ Existing ICM Efforts – San Diego, Dallas
 - ▶ Guidance – USDOT
 - ▶ Organizational enhancements – Caltrans
 - ▶ New Technologies – UC Berkeley
 - ▶ Existing systems – Delcan, TSS, Others
 - ▶ Local and Regional Agencies
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- ▶ ICM California Pilot to be used as a template for expanding ICM to all major corridors in Ca
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Connected Corridors Program

- ▶ Previous / Ongoing Efforts
 - USDOT ICM Efforts
 - PEMS – California Performance Measurement
 - TOPL – Tools for Operational Planning (Macro Modeling)
 - Mobile Millennium – Big Data fusion with probes
- ▶ Concurrent Efforts
 - Organizational Analysis for Corridor Mgmt
 - San Diego and Dallas ICM Implementations
 - Connected Vehicles
- ▶ New Research Efforts
 - Machine Learning
 - Corridor Control with highly fused data
 - Demand Mgmt with crowd sourced decisions
 - True Collaborative Commuting – People, Infrastructure and Vehicles





Agencies, Partners,
Travelers, Government

System Engineering Plans

Corridor – Real Life
Complexities

TMC Centers -
Multiple Systems

Decision
Support System

Research
Estimate,
Predict,
Control

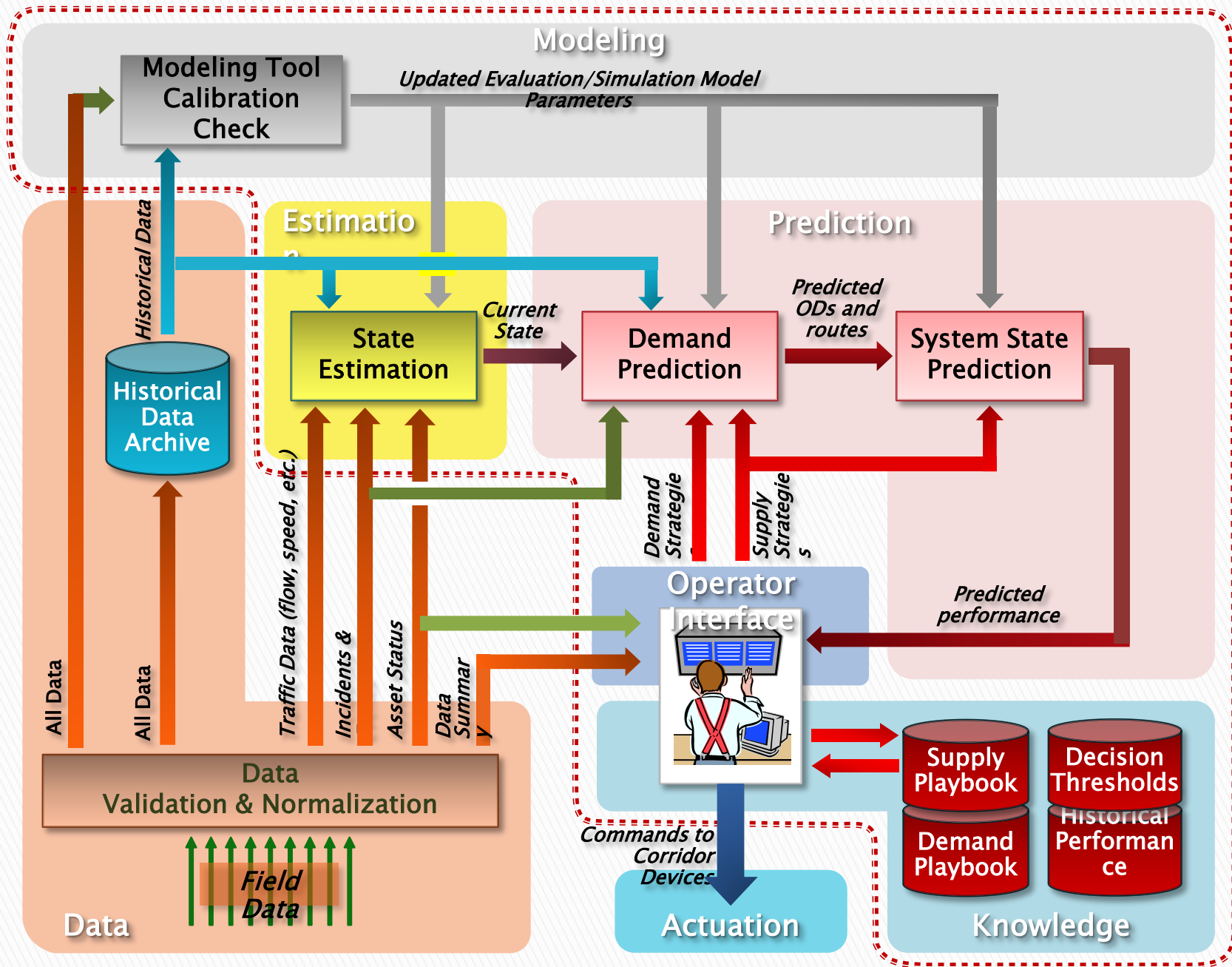
Architecture, Development,
Testing, Deployment

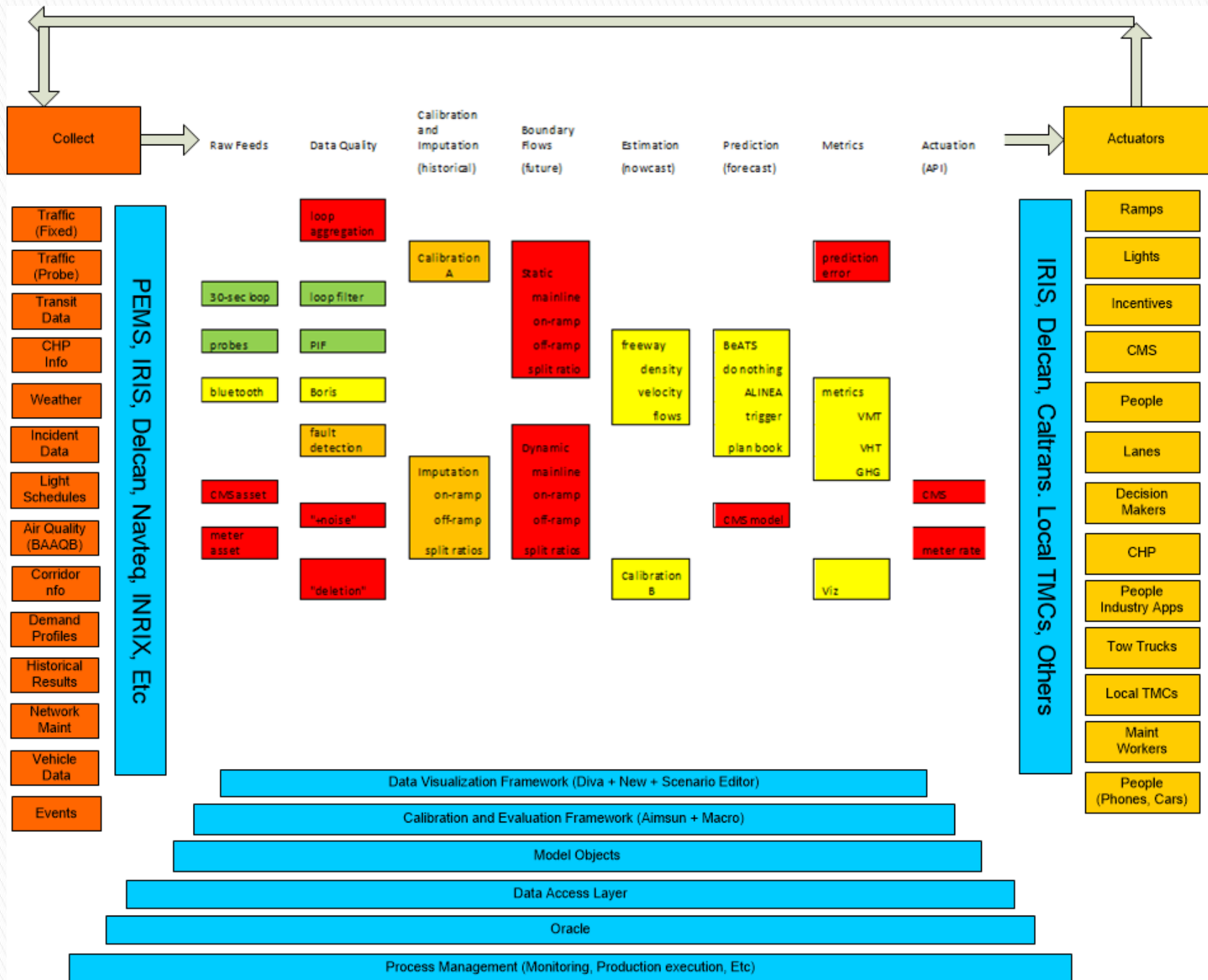
Architecture, Development,
Testing, Interfacing
Deployment

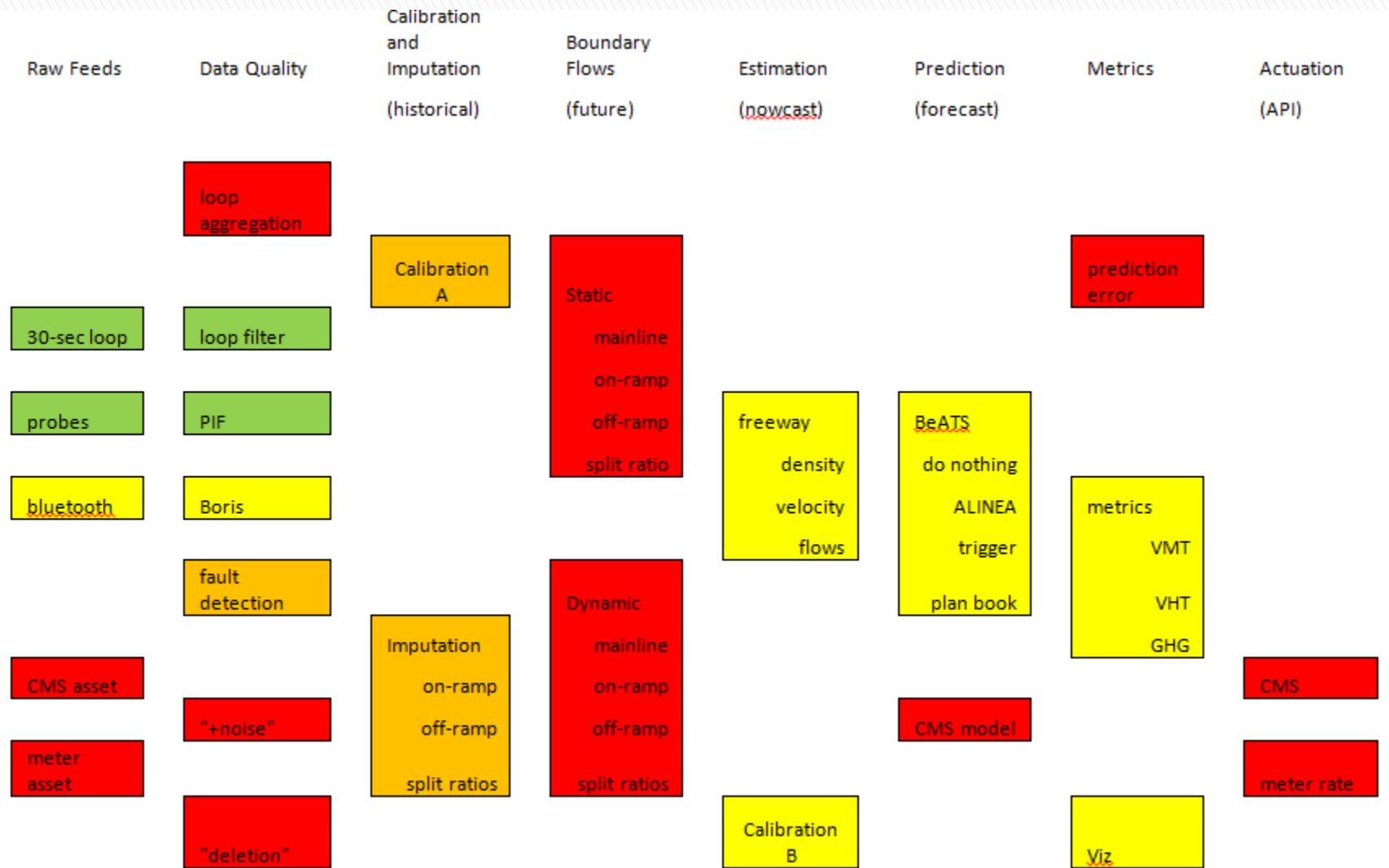
Site Selection,
Characterization, Scenarios,
Unique Needs

Conops, Evaluation,
Simulations, Etc

Outreach, Acceptance,
Funding, Education, Policy







Connected Corridors and SANDAG

- Establish a partnership to prioritize and study new technologies
 - Work together to improve estimation and prediction
 - Improve real time play book evaluation under defined circumstances
 - Understand what aspects of SANDAG's ICM implementation are appropriate for other California corridors
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- We are currently partnering with TSS who is contributing resources, software and know-how
 - We have held discussions with Delcan

Connected Corridors Program

Organization Chart

February 2013

