

**COMPASS
FMCSA IT Workshop
General Session**

Jeff Hall
COMPASS Program Manager



COMPASS: Program Description

COMPASS is a comprehensive overhaul of the way FMCSA and its partners collect, manage, and convey safety information.

- ▶ IT modernization integrated WITH business process improvement
- ▶ A multi-year program with multiple releases of functionality to different user groups
- ▶ A collaborative effort with stakeholders

- ▶ **Scalability** - To keep pace with the increasing number of trucks and buses on America's highways and the associated increase in data
- ▶ **IT/business integration** - Improve the way people perform their jobs by redesigning processes and better integrating business with technology
- ▶ **Consolidation** - Eliminate numerous, stand-alone systems that create data redundancies and the need for multiple IDs/passwords
- ▶ **Data strategy** - Develop and deliver a comprehensive data strategy to use and maintain safety information more efficiently and effectively

Specific IT Causative Factors

- ▶ **Data quality** issues associated with redundancy, timeliness, completeness, and accuracy
- ▶ **CSA 2010 and rulemakings** require significant information system overhaul and flexibility
- ▶ **Multiple complex systems** require numerous applications to complete a single business process
- ▶ **Multiple ID/passwords** significantly burden users
- ▶ **Costly maintenance**
- ▶ **Long duration** to implement changes

Data Quality Attributes

DQ Attributes	Description
Accessibility	Data are easily accessible, understandable and useable
Accuracy	Data represent reality or a verifiable source
Completeness	All necessary data are present
Consistency	Data elements are similarly defined and normalized between systems
Integrity	Data structure and relationships among entities are consistently defined and maintained
Security	Data are safe from unauthorized access and alteration
Timeliness	Data are available when needed and perform within any latencies as defined in the system or policy requirements
Validity	All data values fall within acceptable ranges as defined by the system requirements

▶ Data Quality is a critical success factor

- FMCSA can only realize its mission if the data are reliable
 - Policy development
 - Enforcement
 - Operational, tactical and strategic decision-making
 - Data analysis and dissemination
- Growing demand for operational efficiency
 - Poor data quality is costly resulting in the use of valuable resources for data analysis, correction and cleansing
- Effective data exchange necessitates data quality requirements with other entities (internal and external)

COMPASS and CSA 2010 Programs

- ▶ **COMPASS Roadmap** incorporates CSA 2010 vision and business needs
- ▶ **Change management** and **communication** activities are coordinated
- ▶ **CSA 2010 operational model test** will define and refine requirements prior to deployment in COMPASS
- ▶ **COMPASS releases** will implement **CSA 2010 requirements** as applicable

COMPASS Implements CSA 2010

- ▶ **COMPASS is the vehicle for making CSA 2010's vision a reality**
- ▶ **COMPASS architecture to support CSA 2010**
 - **Consolidated enterprise database** provides necessary data quality improvements
 - **FMCSA portal** provides communication tool to both enforcement and regulated customers
 - **Rules engine** enables flexible and efficient method to roll out CSA 2010 business rules
 - **Business intelligence engine** provides analytical tool to measure CSA 2010 program impact
 - **Mobile client** provides streamlined data capture
- ▶ **COMPASS releases** provide the method to incrementally roll out new CSA 2010 business processes



- ▶ **Web Portal**
- ▶ **Enterprise database**
- ▶ **Data warehouse**
- ▶ **Mobile client**
- ▶ **External data exchange**



Expected Benefits for Enforcement and Industry

- ▶ Increased user efficiency and effectiveness by having:
 - **One location** to retrieve authoritative information that is protected from unauthorized access and alteration
 - **Timely and reliable information** for conducting roadside and border safety inspections, safety audits, and compliance reviews
 - **Automated alerts** sent to the right person for action
 - **Information “pushed out”** through a data warehouse for users to develop their own analysis reports
 - **Increased self-sufficiency** for the users (e.g. report development and analysis, online password reset, etc)

What Have We Accomplished to Date

▶ Program and technical foundation

- Pilot release
- Established technologies, processes, skills
- Stakeholder engagement
- E-Authentication
- Online accounts management
- Industry portal view
- Single sign-on to MCMIS, EMIS, L&I, and DataQs
- Online review & audit assignment
- Online training and help

▶ Trainer lead training

What is Coming Up Next - SSO

- ▶ Account management improvements
- ▶ Portal usability improvements
- ▶ Additional data download options
- ▶ Single sign-on to additional safety systems
- ▶ Links to FMCSA public web sites

► Additional single sign-on to:

- Analysis & Information Online (A&I)
- Electronic Document Management System (EDMS)
- FMCSA Information Systems website (InfoSys)
- HM Package Inspection Program (HMPIP)
- National Consumer Complaint Database (NCCDB)
- Query Central (QC)
- SAFER website

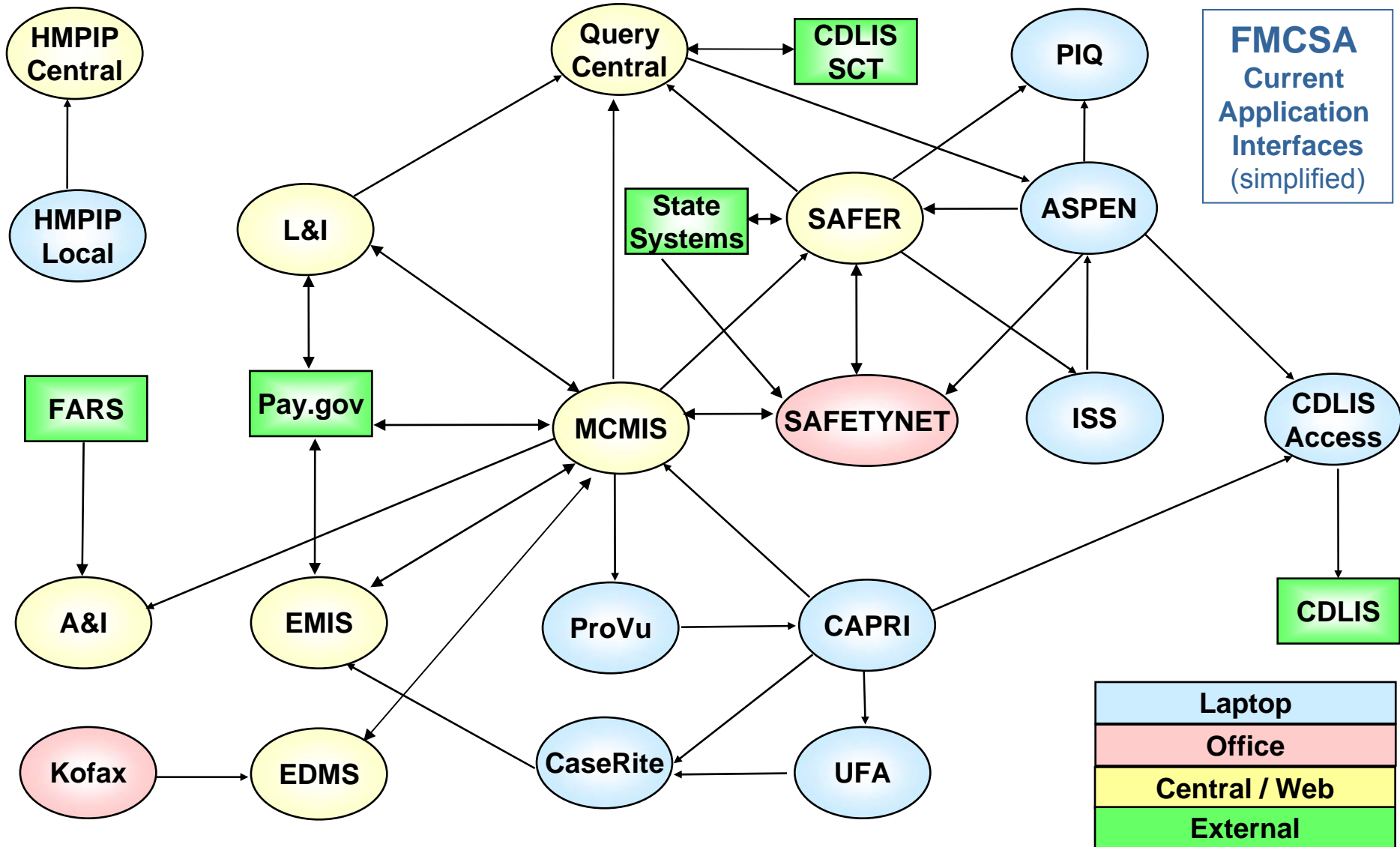
What is Coming Up Next - SSO

- ▶ Links without SSO will be provided to:
 - CVISN website (cvisn.fmcsa.dot.gov)
 - National HM Route Registry website (NHMRR)
 - NTC website
 - National Registry of Certified Medical Examiners website (NRCME)
 - Protect Your Move website
 - Share the Road Safely website

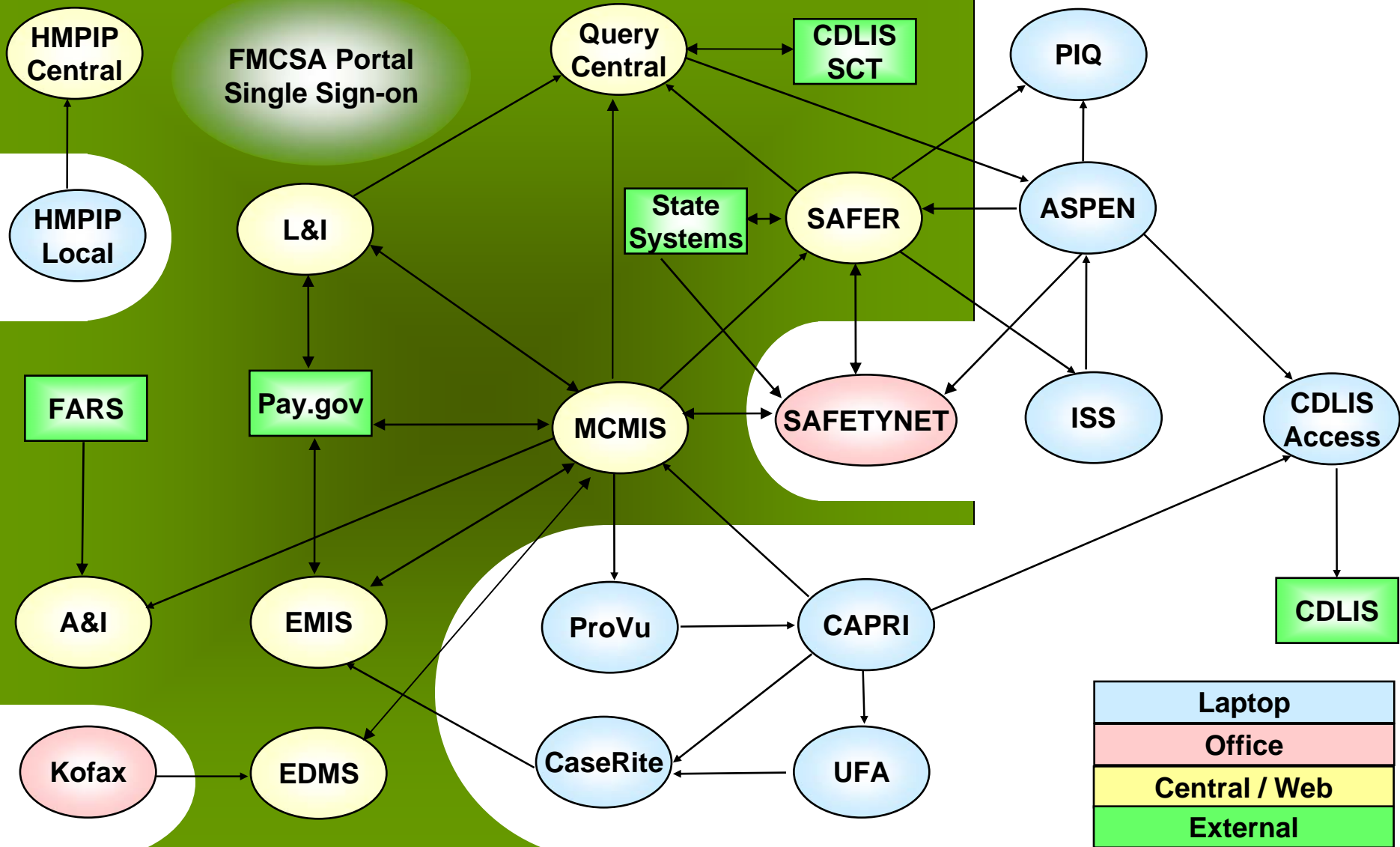
FMCSA's IT Systems In Transition

- The following slides graphically depict the COMPASS strategy to integrate business functionality in phases.
- Over time all current safety application functionality will be integrated into the FMCSA portal and mobile client.
- As functionality is deployed in the portal and mobile client, the existing systems will be retired.

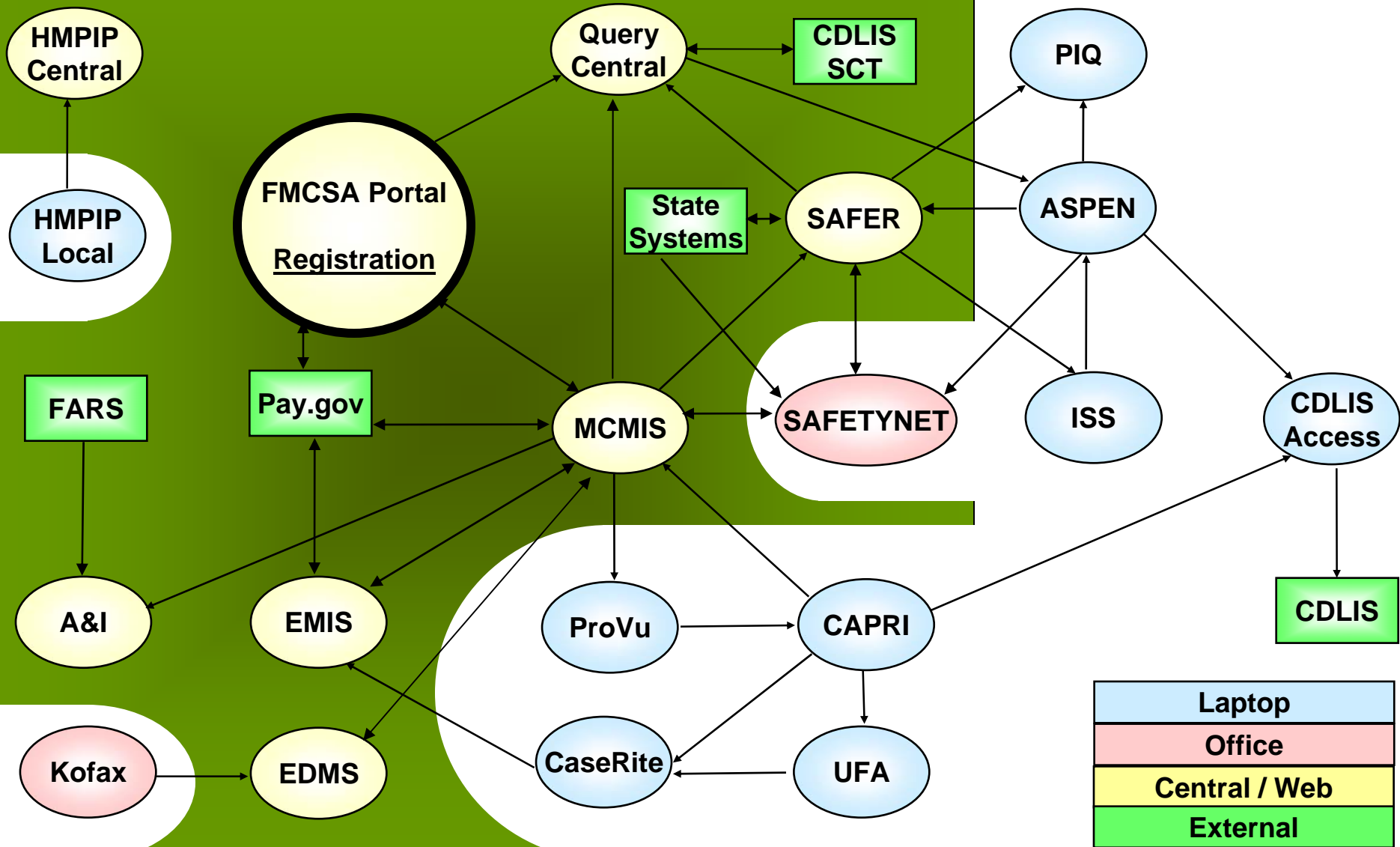
FMCSA's IT Systems Today



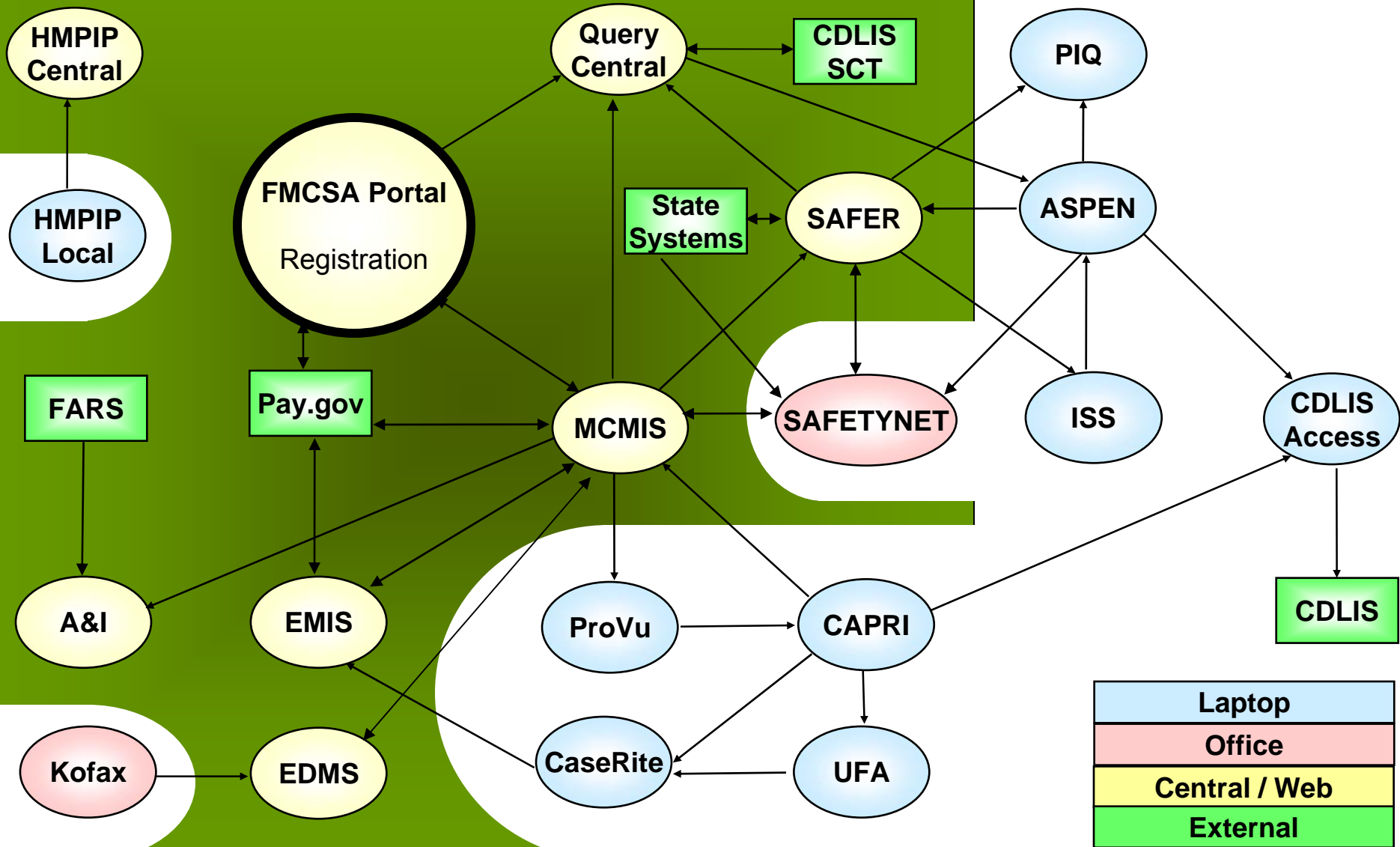
FMCSA's IT Systems In Transition – Portal SSO



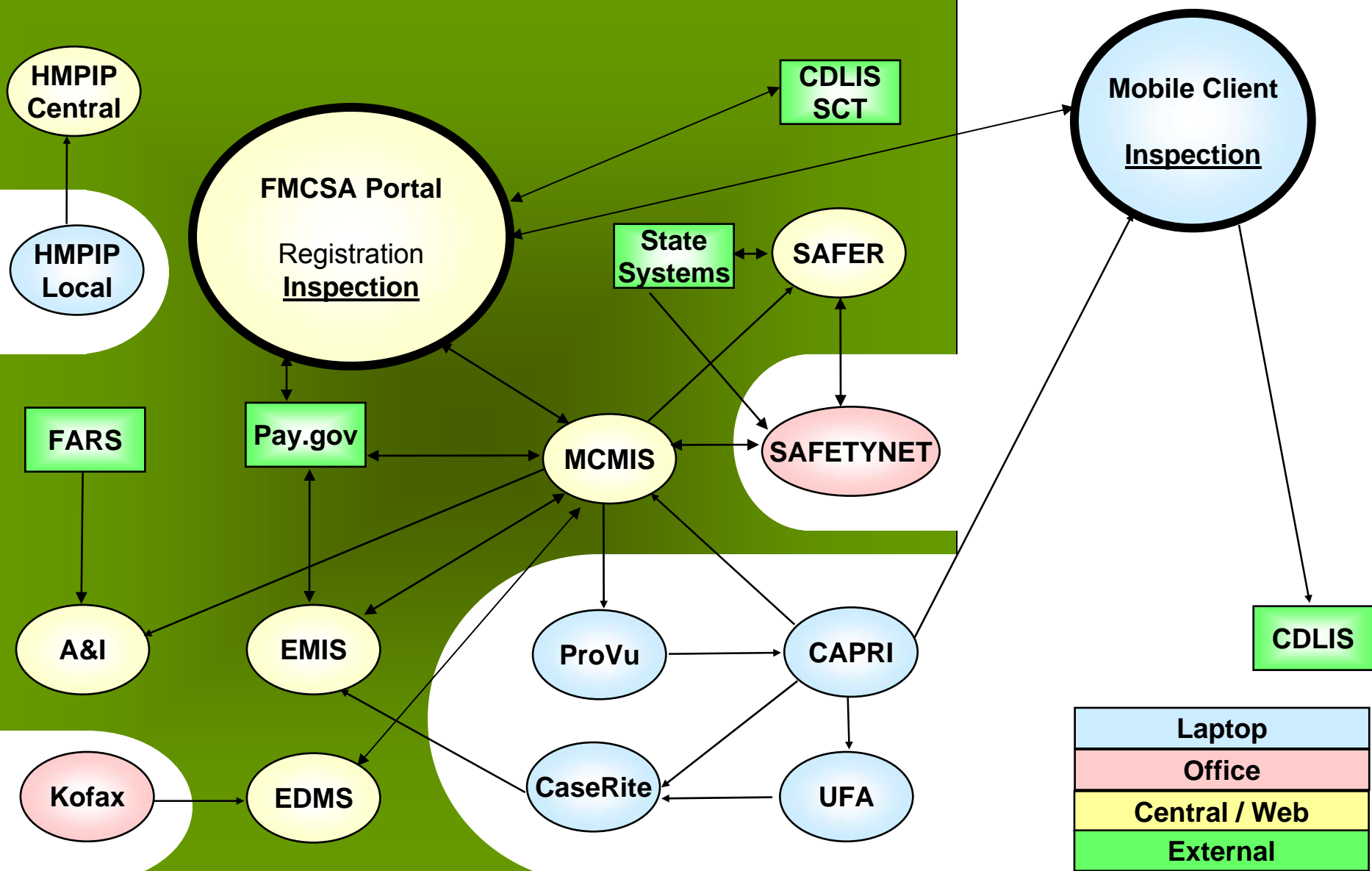
FMCSA's IT Systems In Transition - Registration



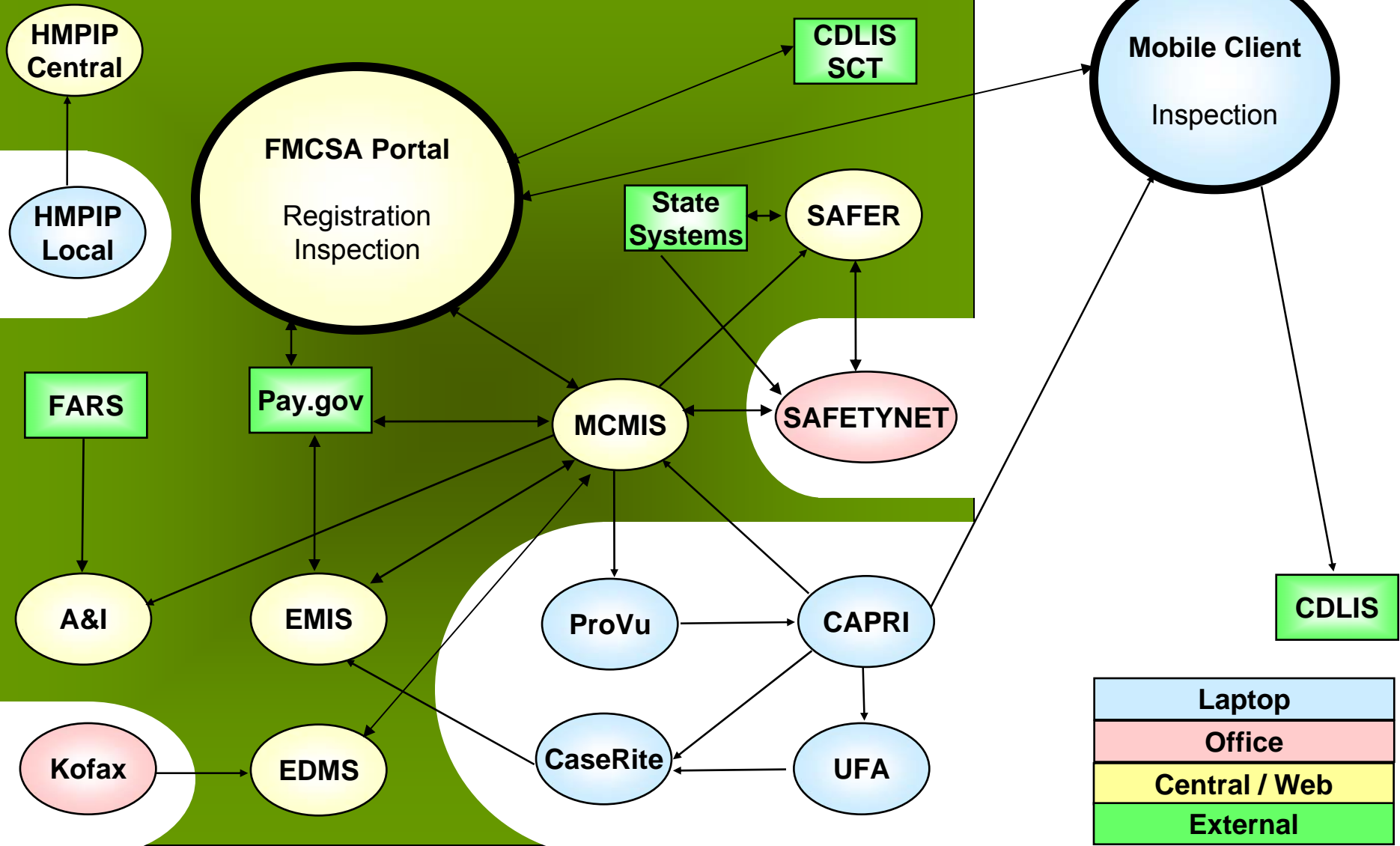
FMCSA's IT Systems In Transition - Inspection



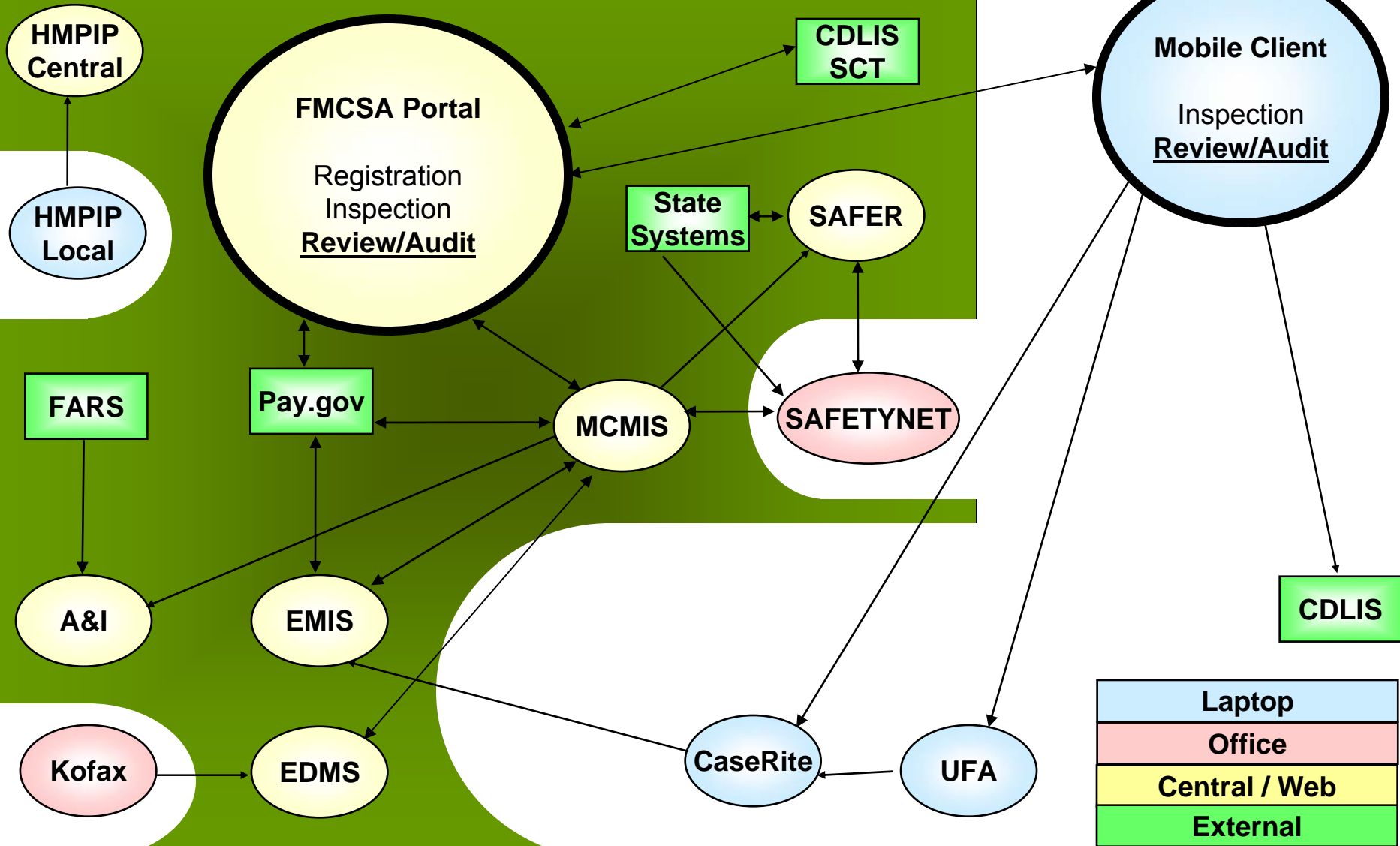
FMCSA's IT Systems In Transition - Inspection



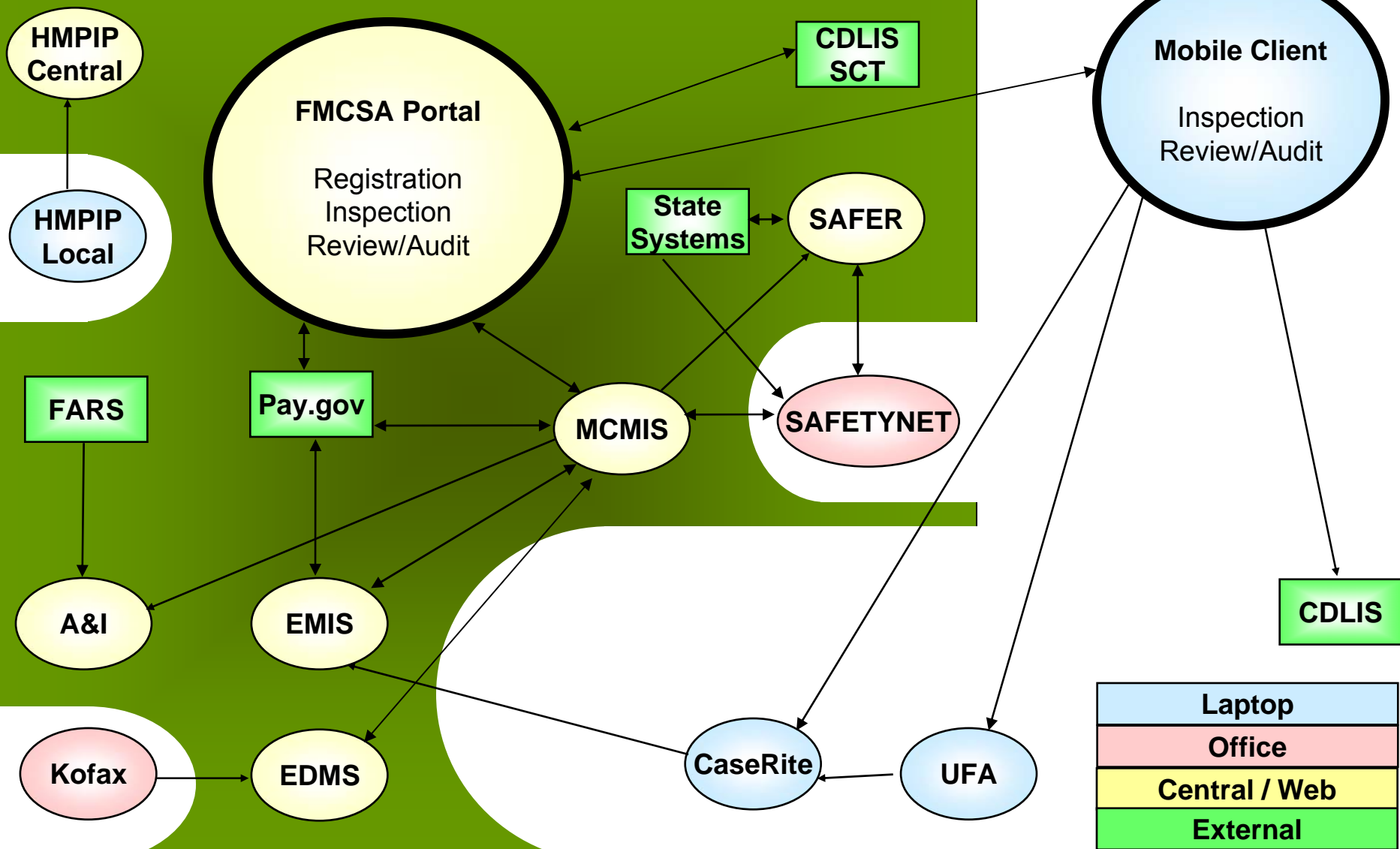
FMCSA's IT Systems In Transition – Review/Audit



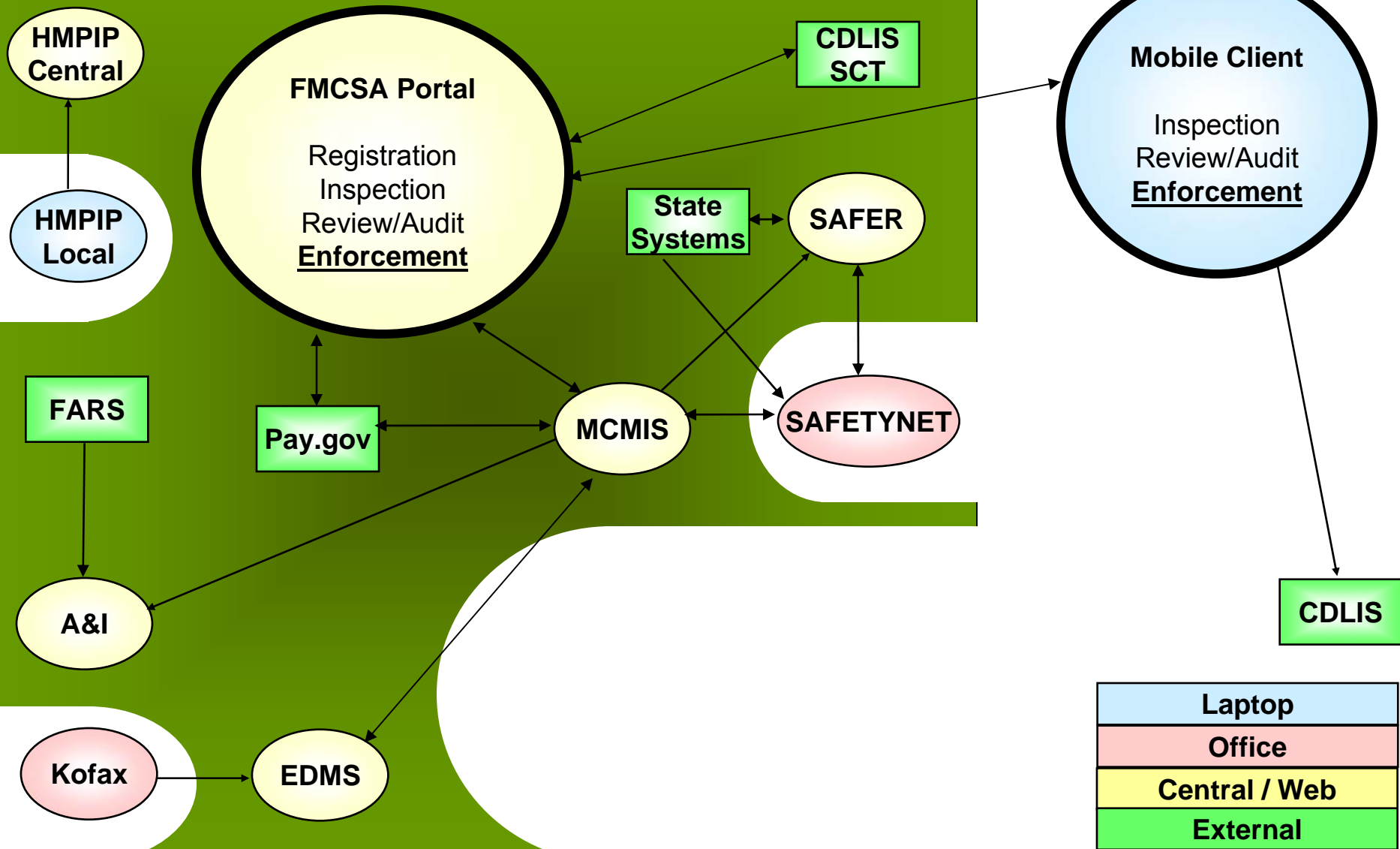
FMCSA's IT Systems In Transition – Review/Audit



FMCSA's IT Systems In Transition - Enforcement



FMCSA's IT Systems In Transition - Enforcement

















- ▶ You can make a difference by getting involved
 - Be aware of COMPASS program activities
www.fmcsa.dot.gov/COMPASS
 - Be an active spokesperson for COMPASS by speaking out on current activities and new program developments
 - Join working groups to help develop requirements, validate design, test, train, and/or manage change

**To speak out on COMPASS and get involved,
ask your supervisor and/or e-mail us
at compass@dot.gov.**

COMPASS Sessions

COMPASS Training COMPASS Portal Access hands-on training will be provided.	Federal and State Users
COMPASS Overview, Collaboration, and the Mobile Client	Federal and State Users
COMPASS Requirements for Compliance Monitoring	Federal Users
COMPASS Requirements for Compliance Monitoring	State Users
COMPASS Requirements for Registration and Public Access Individuals who process applications for authority (USDOT number, operating authority) or other state registration systems, support carriers trying to register, deal with registration corrections, perform New Entrant Safety Audits or Compliance Reviews, and analysts who deal with data should attend.	Federal and State Users

For More Information

Jeff Hall

COMPASS Program Manager

jeff.hall@dot.gov

Or

Bill Coleman

COMPASS Communications and
Organizational Change Manager

bill.coleman@dot.gov

Or

Ed Dunne

COMPASS Development Manager

edward.dunne@dot.gov

To give feedback or ask questions
e-mail compass@dot.gov