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Our Consortium's Approach to a Nationwide Health Information Network Architecture

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This presentation discusses a NHIN Architecture Prototype project made possible by a contract from the Office of the National Coordinator for Health Information Technology (ONC), DHHS. The content is solely the responsibility of the authors and does not necessarily represent the official view of ONC.

ONC Parallel Efforts



- Privacy and Security
- Standards
- EHR/EMR Certification
- Prototypes

Use cases are used to tie together the parallel efforts



- Electronic Health Record
- Personal Health Record
- Biosurveillance

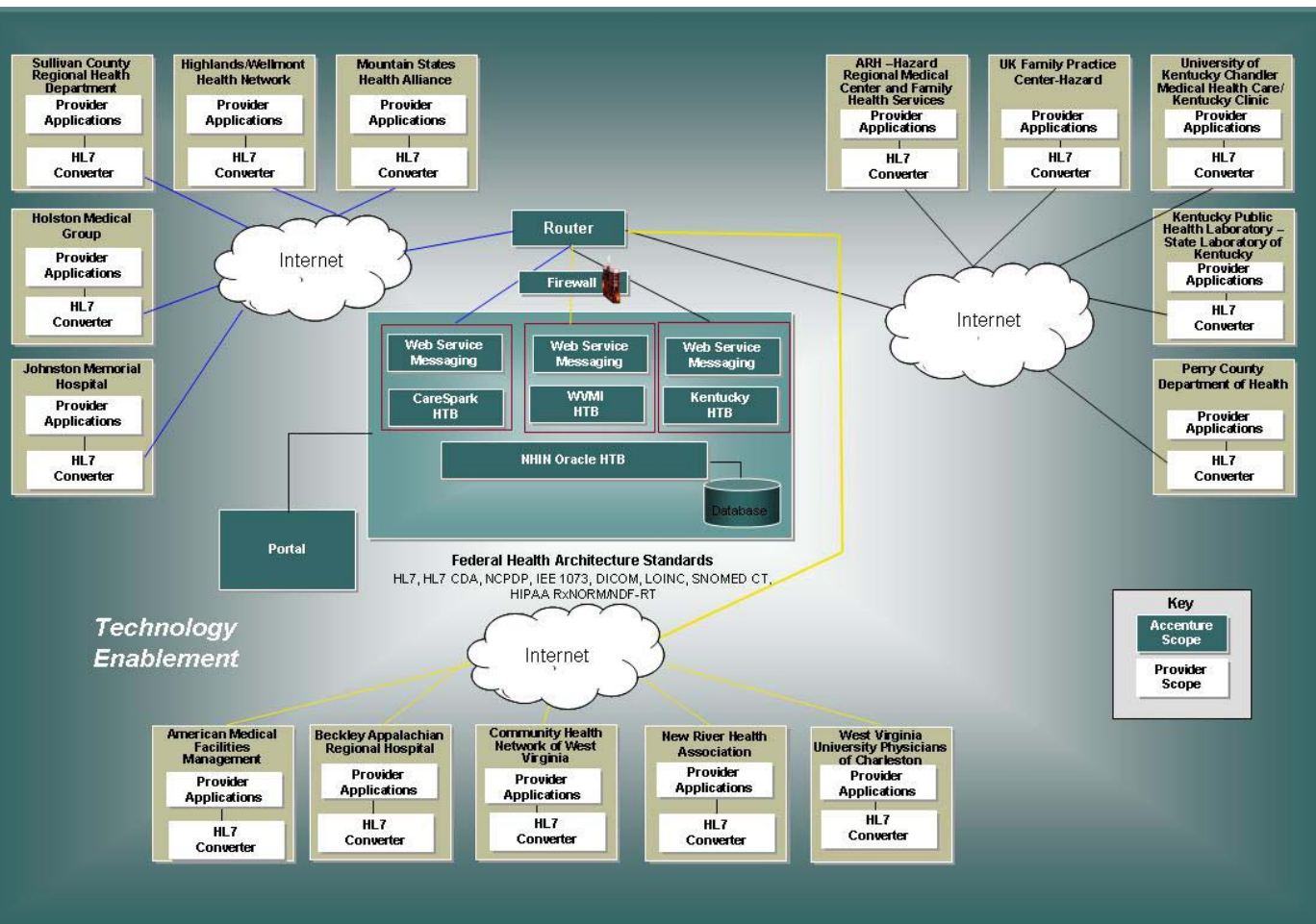
Our Distinct Health Markets



Appalachian Region

- Our location includes: CareSpark from the tri-cities region of northeastern Tennessee and southwestern Virginia; West Virginia eHealth Initiative; and Eastern Kentucky Regional Health Information Organization
- Our distinct health care markets have RHIOs but do not have regional information infrastructures for sharing health data
- Provide a live demonstration of the solution at the end of the first year and develop additional functionality in the option year

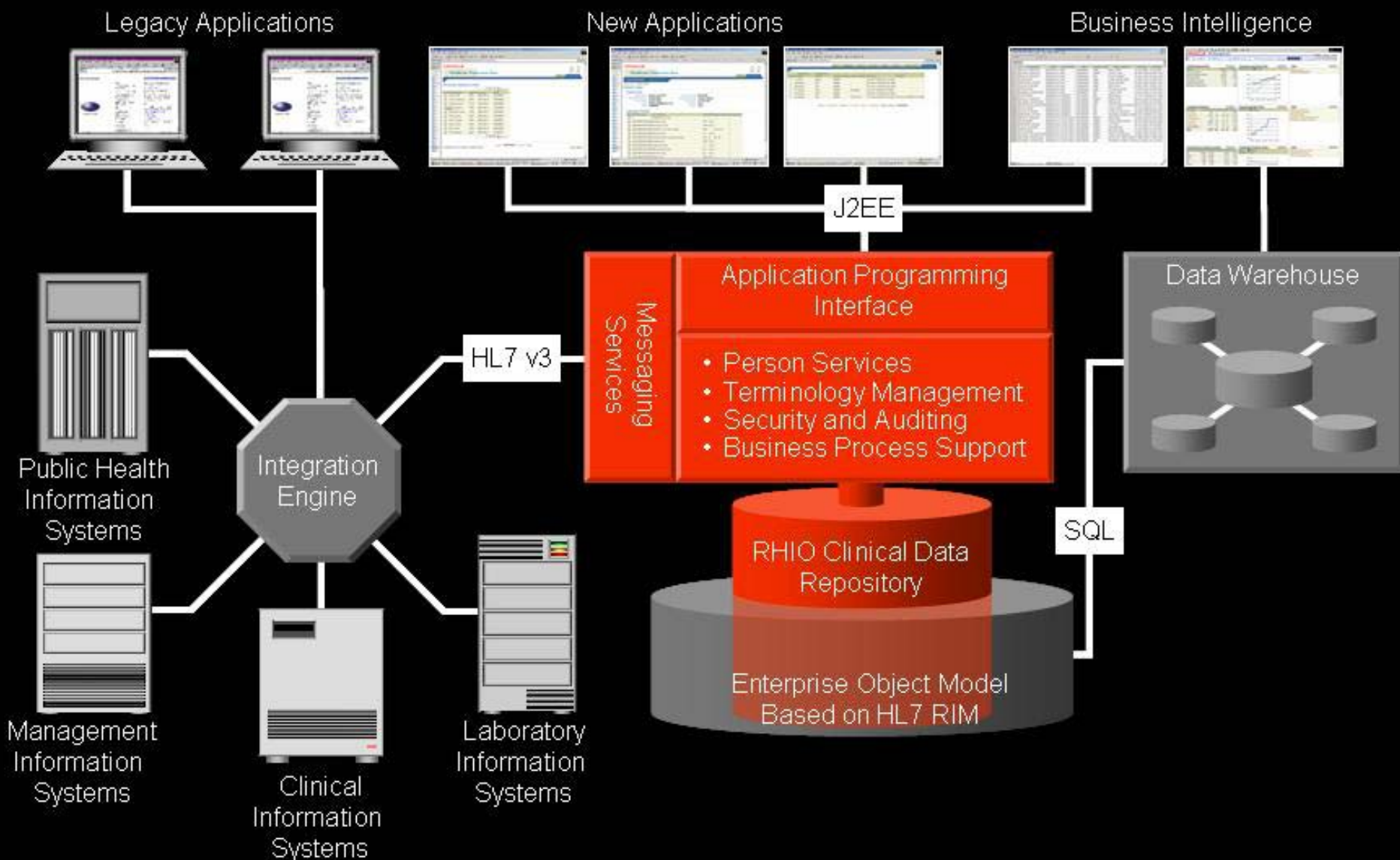
Our Solution



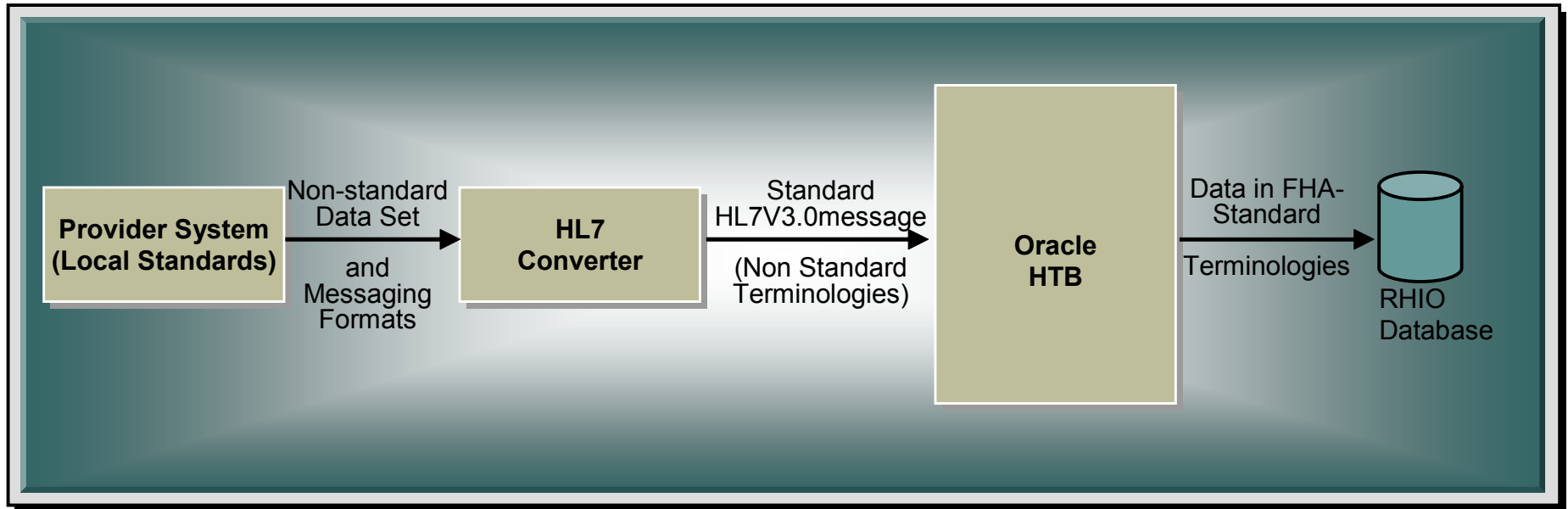
Our goals:

- Standardize and normalize data
- Develop an architecture that facilitates sharing between platforms that previously were vertical silos
- Develop a workable governance and business model

Application Architecture



Our approach results in the collection of data from multiple legacy systems that is normalized to the HL7 v3.0 message format and FHA terminology standards



Challenges and Opportunities



- Establishing Trust
- Data Ownership
- Will standards evolve fast enough?
- Dealing with differing legal requirements
- Financing