


Meaningful Use and the Role of Health Information Exchange

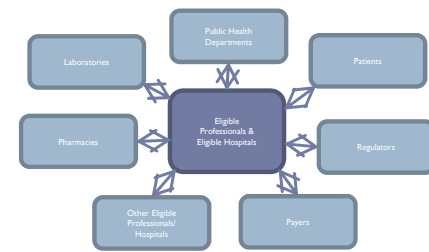


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- ▶ Types of health information exchange (HIE) required or implied under proposed stage I meaningful use criteria (“what”)
 - ▶ Approaches to achieving HIE (“how”)
 - ▶ Recent data on HIE efforts







▶ Provider → Pharmacy

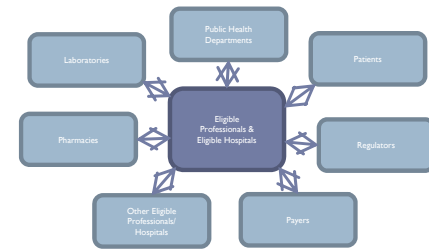
▶ *Eligible Professionals*

- ▶ Generate and transmit permissible prescriptions electronically (ePrescribing)

▶ Laboratory → Provider

- ▶ Incorporate clinical lab test results into EHR as structured data





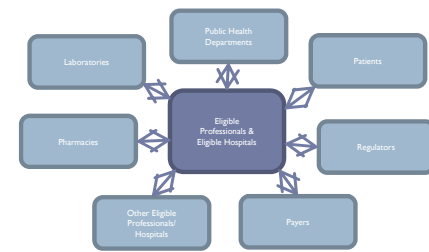
▶ **Provider \leftrightarrow Payer (public and private)**

- ▶ Check insurance eligibility
- ▶ Submit claims

▶ **Provider \rightarrow Regulator**

- ▶ Submit meaningful use measures to CMS or states electronically (stage 2)





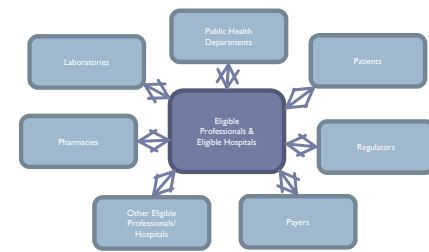
▶ Provider → Public Health

- ▶ Submit immunization data to registries (if PH can receive)
- ▶ Submit reportable lab results (if PH can receive)
- ▶ Submit syndromic surveillance (if PH can receive)

▶ Provider → Provider

- ▶ Provide summary care record for each transition of care and referral
- ▶ Exchange clinical information electronically with other providers and patient authorized entities (stage I - capability only)





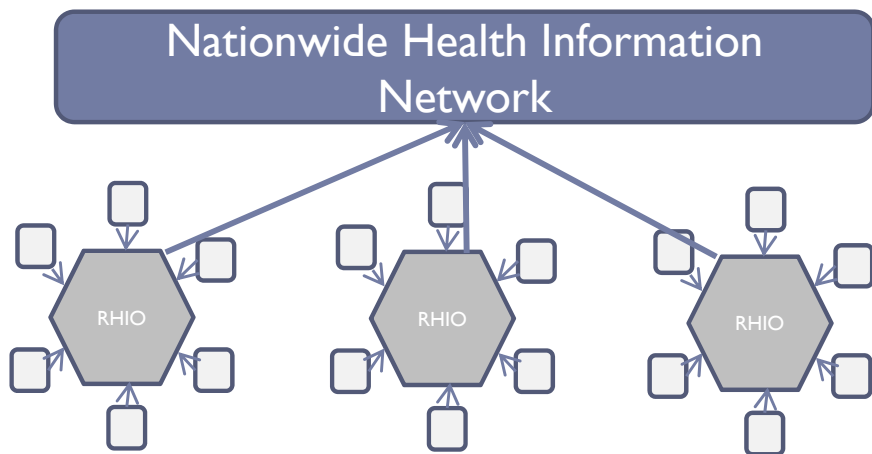
▶ Provider → Patient

- ▶ Provide patients with an electronic copy of their information upon request
- ▶ *Eligible professionals*
 - ▶ Send electronic reminders to patients (if requested)
 - ▶ Provide patients with timely electronic access to their information
- ▶ *Eligible hospitals*
 - ▶ Provide patients with an electronic copy of their discharge instructions and procedures at discharge (hospitals)

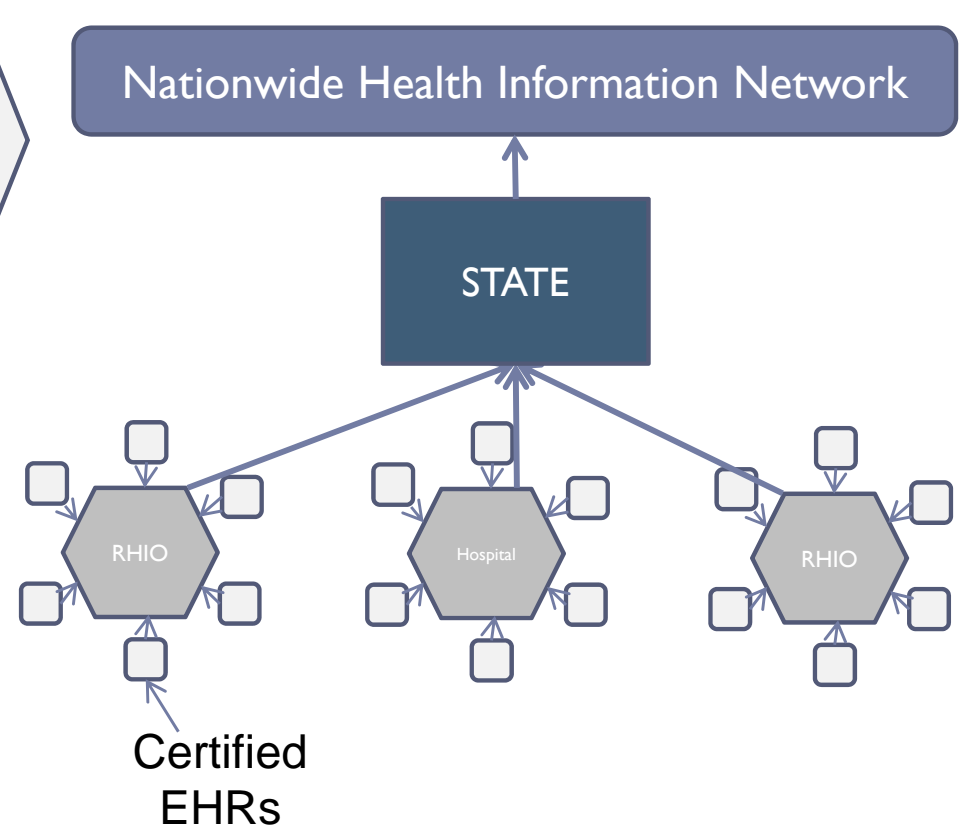


Achieving nationwide HIE

▶ Network-of-networks



▶ State-mediated HIE



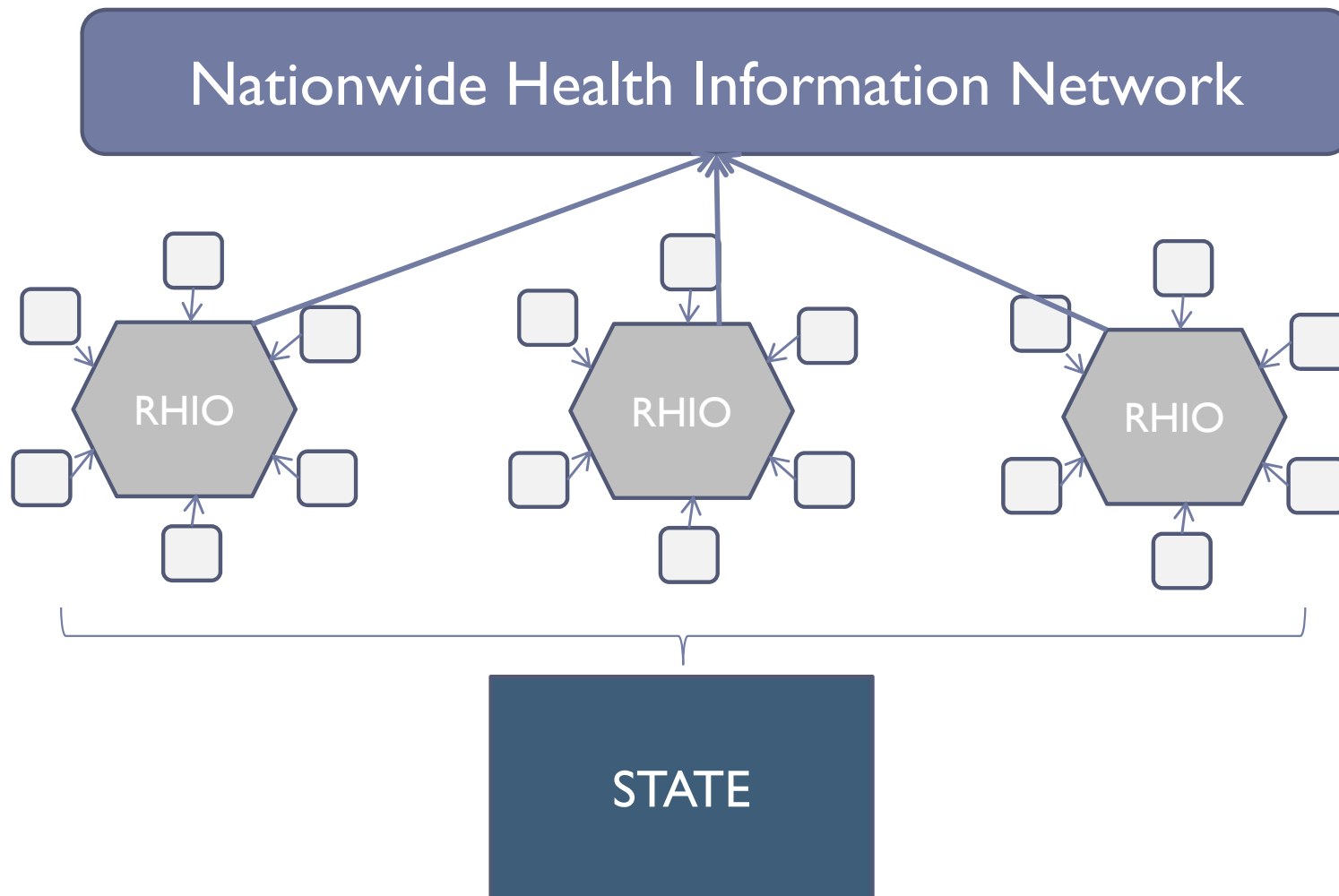
State/State-Designated Entity Role in HIE

- ▶ 56 states and territories received \$548 million to build out HIE capabilities
 - ▶ 4-year awards (2010-2014)
 - ▶ Activities include:
 - ▶ Governance
 - ▶ Policies
 - ▶ Technical services
 - ▶ Business operations
 - ▶ Financing mechanisms



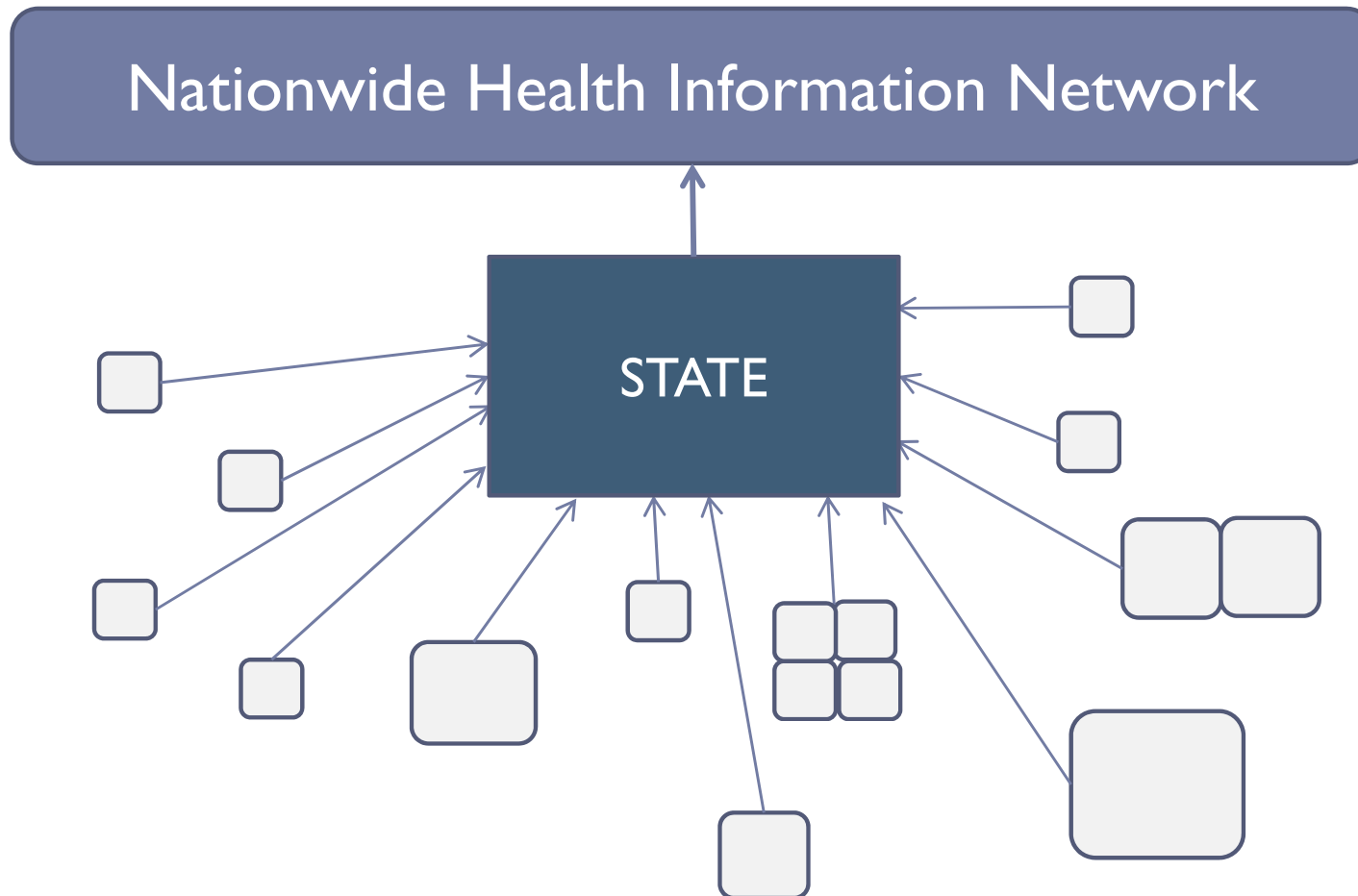
State-level Approaches (1)

▶ HIE Convener



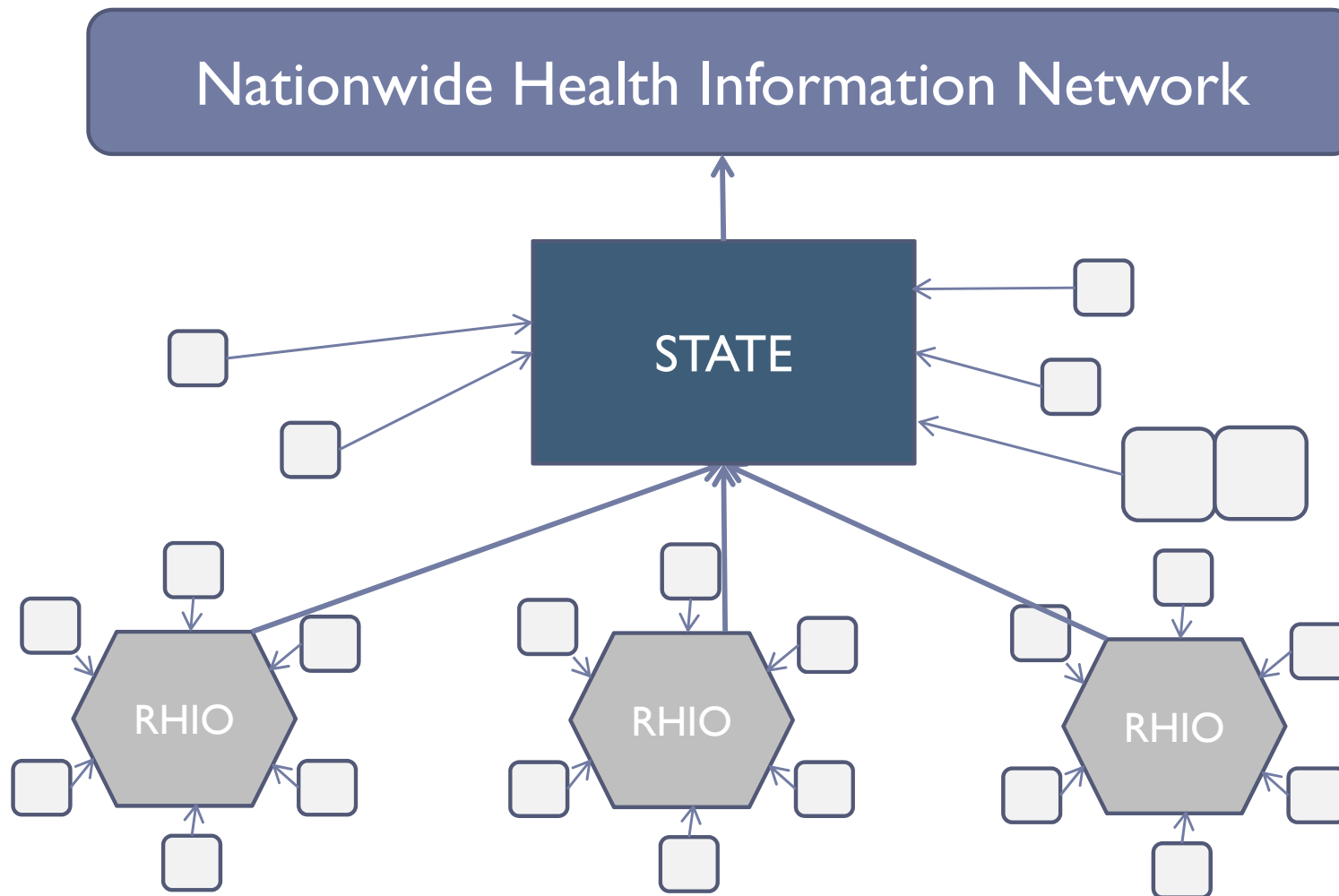
State-level Approaches (2)

▶ HIE Utility

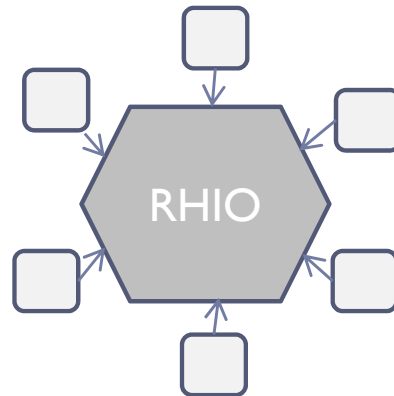


State-level Approaches (3)

▶ HIE Operator

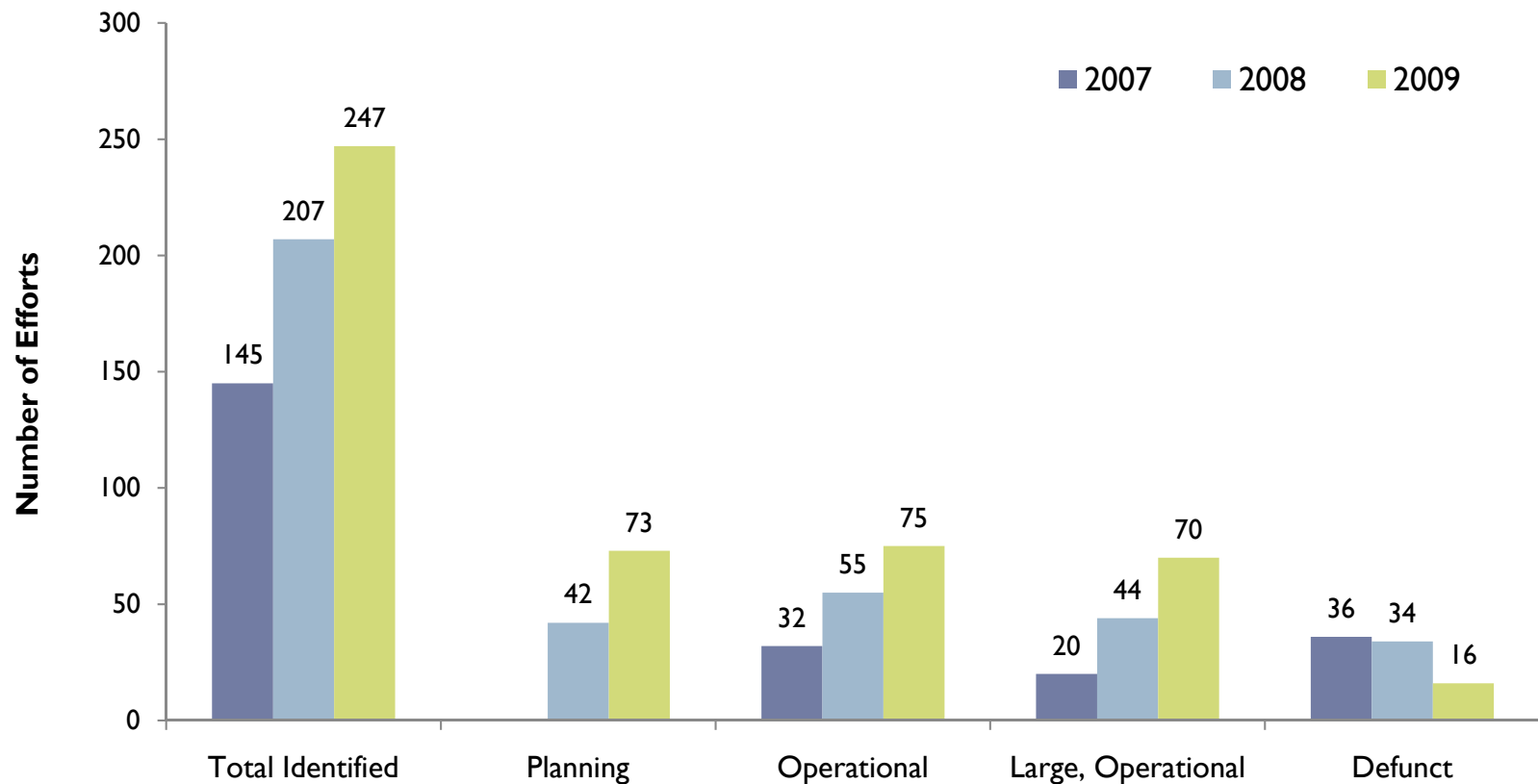


Regional HIE Efforts



HIE Efforts – Longitudinal Results

Number of Efforts: Growth over Time



HIE Efforts & Meaningful Use

▶ Stage I Criteria

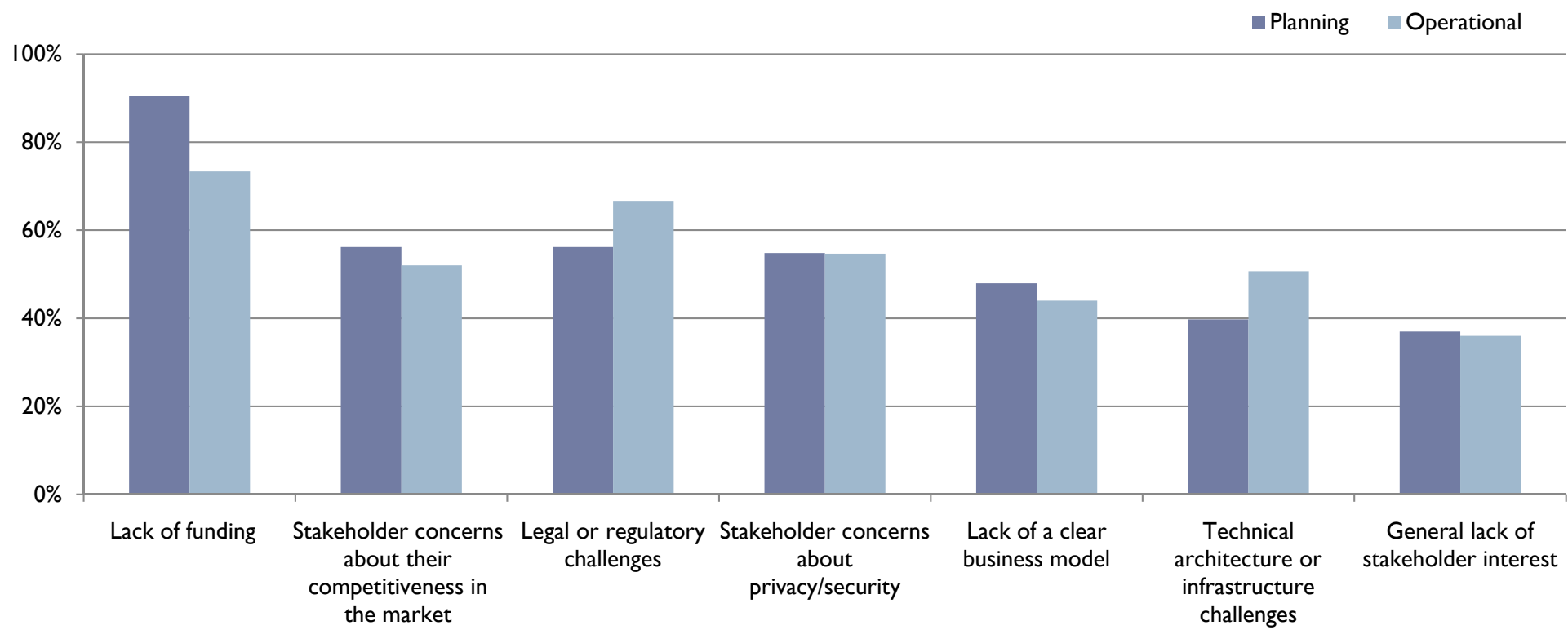
▶ Number of operational efforts that support:

- ▶ Provider → Provider: 45 (60%)
- ▶ Provider → Pharmacy: 21 (28%)
- ▶ Provider → Payer: 11 (15%)



Results

Barriers to Development



n=73 planning; n=75 operational



Summary

- ▶ HIE is an integral component of meaningful use
- ▶ Exchange between many types of stakeholders is required
- ▶ States are at the center of developing and implementing approaches to facilitate HIE
 - ▶ Variation in approaches and roles, dependent on
 - ▶ Existing HIE infrastructure
 - ▶ Health care delivery patterns and market structure
 - ▶ Legal & regulatory environment
- ▶ Clearly articulated vision for pathway to nationwide HIE, but majority of the work lies ahead

