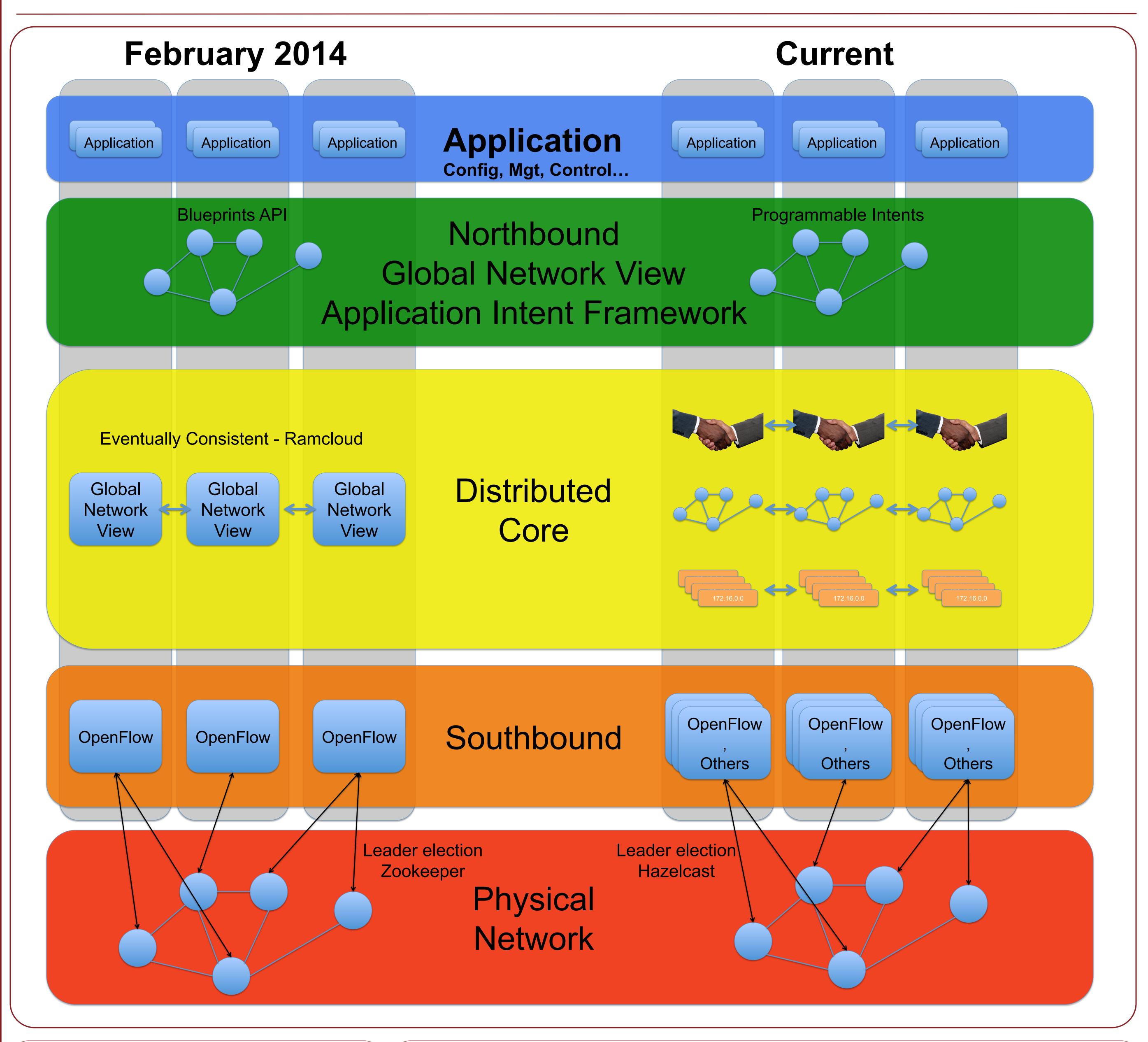


# ONOS Architectural Progress



### Highlights

- New Abstraction: Application Intents
- Optimized State Management
- Pluggable Southbound
- Refactored Interfaces
  - Northbound / Core
  - Southbound / Core
- Modularity Apache Karafe
- Removed Zookeeper

#### ONOS Partners:







## **FUJITSU**









# Optimizing Distributed State Management

**Application Intents** Immutable Durable/Replicated

**Global Network View** 

**Eventually Consistent** 

Fully Replicated

Flow Table Entries

**Strongly Consistent** 

Partitioned



3 Way Replication for Durability HA Execution via Distributed Queues

Partial Ordering with Vector Clocks Optimistic Replication Gossip Based Anti-Entropy

Master/Backup Replication



