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The bridge to possible

Methodology into Enterprise Architecture

From Conception to Action and Why it isn't so different from the Big Dig

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BRKARC-2038



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Agenda

- Introduction
- Enterprise Architecture Definitions
- Translating to Outcomes
- Methodology
- Example
- Conclusion



- **Cisco Role:** Account Manager, Global Enterprise Segment
- **Segments:** Healthcare, Consulting
- **Architecture:** Ideas into ACTION



Goals of this Session

- Understand Enterprise Architecture elements and common definitions
- Develop or redesign your methodology
- Where to start
- Actionable ideas

Boston, Massachusetts

City 'Network'



Traditional Architecture

- Conflicting Processes
- Scale Problems
- Information Silos



We can't solve problems by using the same kind of thinking we used when we created them ~ Albert Einstein

Today's Landscape



Users

- High Availability
- Desire for customization
- Compliance and Security

Real-Time Information

- Distributed Data
- Self- Service
- Speed of Deployment

Enterprise

- Work from Anywhere
- Flexible capacity
- Ever expanding footprint: Cloud Apps, SAAS, OT

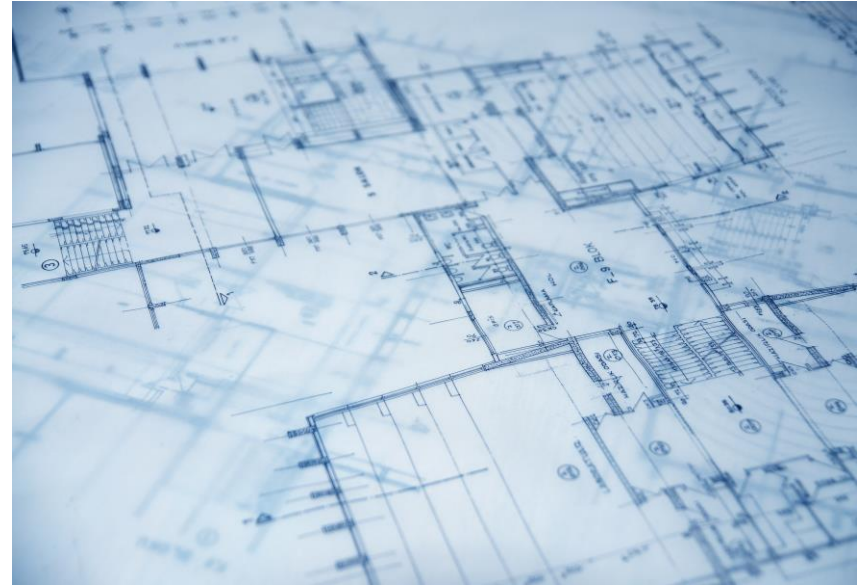
Important Questions

- What are the main challenges in your role today and over the next five years?
- What are your company's top priorities today and over the next five years?
- How can you drive a common direction?
- How do you combat the complexity in today's world?

Today's Architecture



Requires 'This'



What is Architecture?

What can it deliver?



Defining Architecture

- **How** do you define the phrase 'architecture'?
- **Who** defines your architecture?
- If I asked another member of your organization, **would they define architecture the same way you did?**



'Designing for IT Ops,
QA, Developers,
Security'

'Need to be able to speak with
different teams and communicate
the same thing'

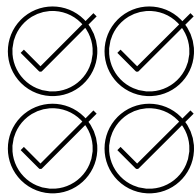
'The Network'

Enterprise Architecture Outcomes

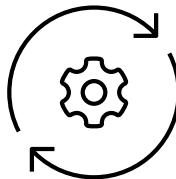
IT Keep the
Lights On



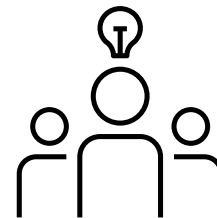
Network as the Business
Enabler



Reduce Complexity



Simplify Deployments



Being Perceived as Service



Customer Benefits

- 1 Respond to New Market Opportunities
- 2 Enable Quality
- 3 Prioritization Framework
- 4 Justify Investments

Architecture Frameworks for Consideration

- The Zachman Framework for Enterprise Architecture
- Federal Enterprise Architecture Framework (FEAF)
- Gartner
- The Open Group- TOGAF Framework

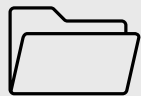
(and more...)

Enterprise Architecture

Definition

Organizing logic for business processes and IT infrastructure reflecting the integration and standardization requirements of the company's operating model

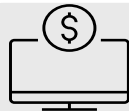
Foundational
Elements



Processes



Data



Technologies



Customer
Interfaces

Underlays

Business Process Architecture

Data or Information Architecture

Applications Architecture

Technology Architecture

People

Process

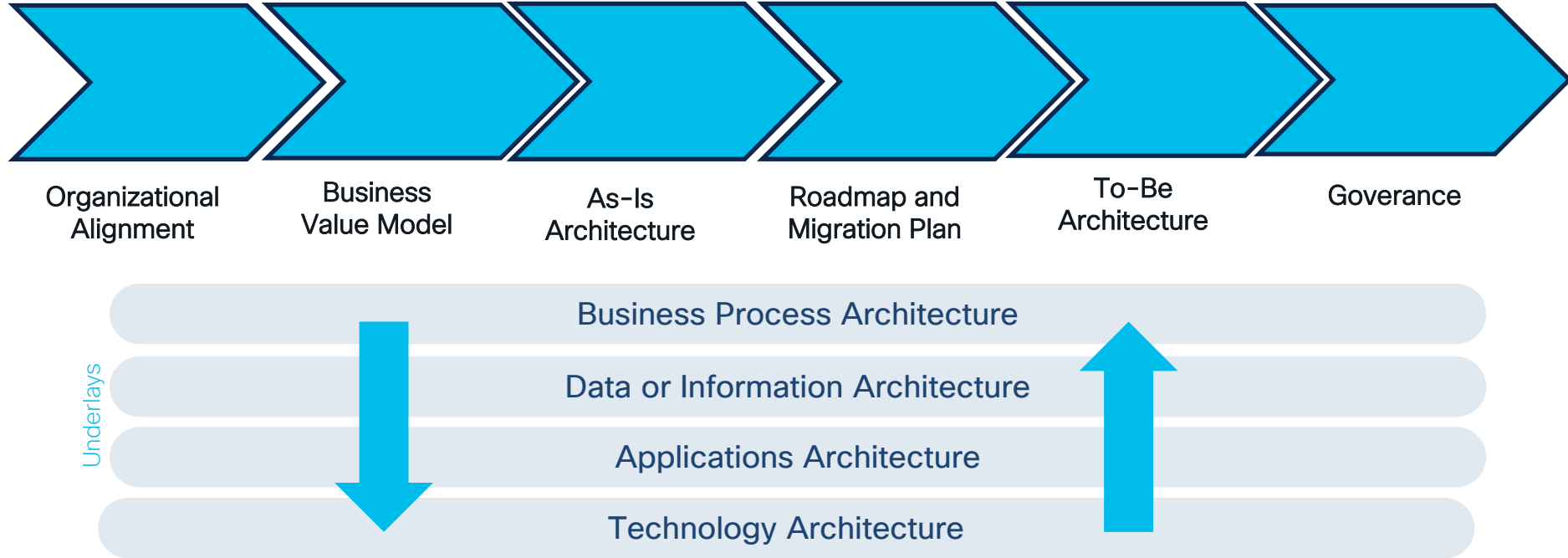
Technology

Operations and Change
Management

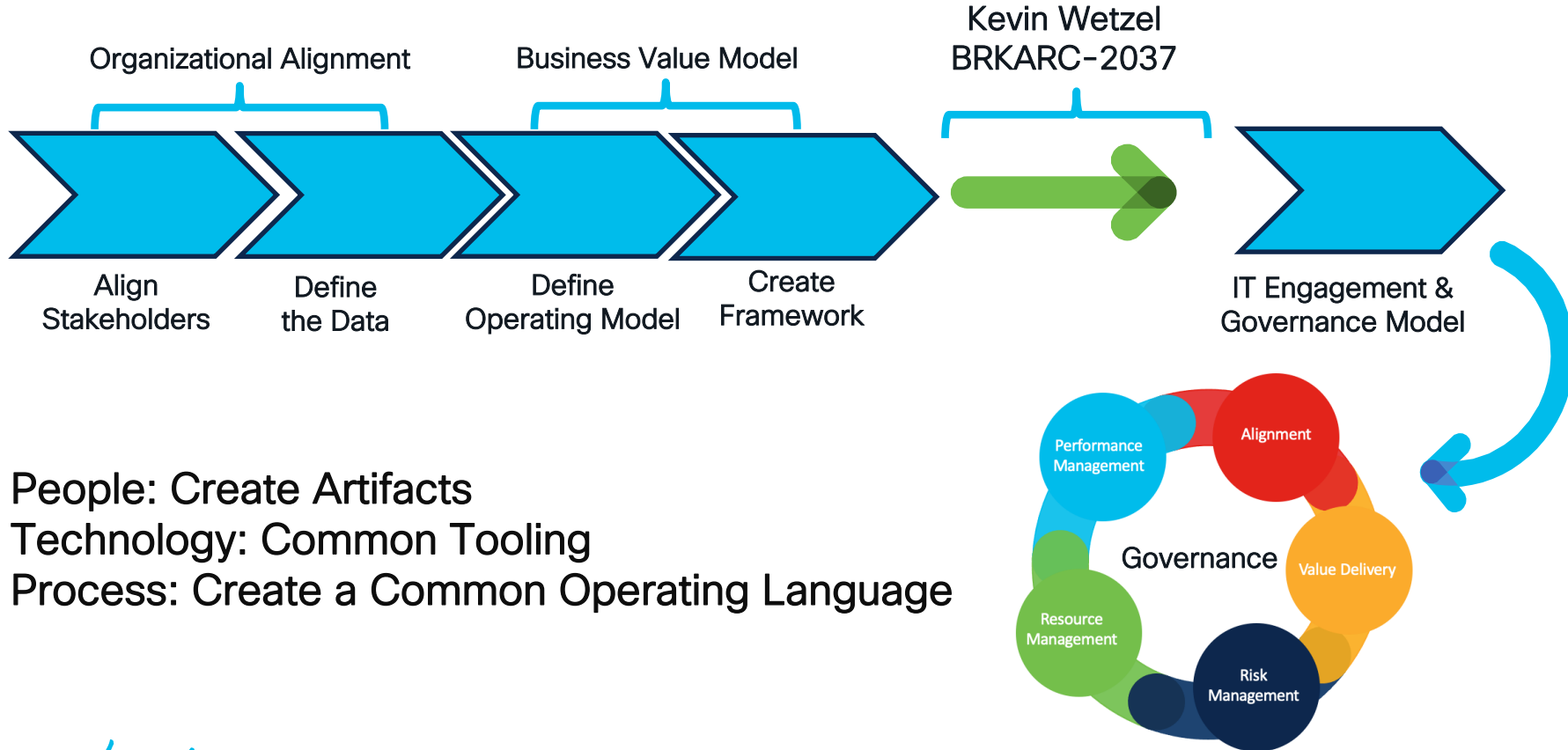
Methodology



Assessing Enterprise Architecture



Enterprise Architecture Methodology



Get Started

Organizational Alignment

People

Define Stakeholders

Technology

Align Data

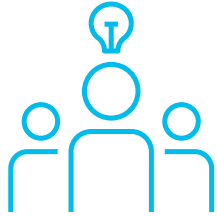
Business Value Model

Process

Document Operating Model

Create Core Framework

Enterprise Architecture Stakeholders



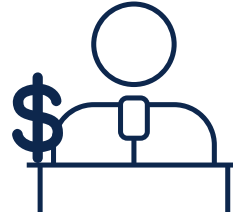
IT Steering Committee

- AMO
- Vendor Agnostic Groups
- Senior Management



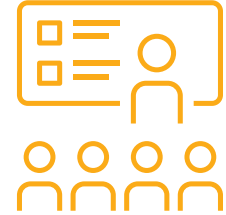
Architects

- Business Architects
- Technology Architects
- Enterprise Architects



Finance and Purchasing

- CFO
- Procurement
- Supplier Relations



Enterprise-Wide Process Owners

- Chief of _____
- User Groups
- Business Unit Leaders for Local Systems

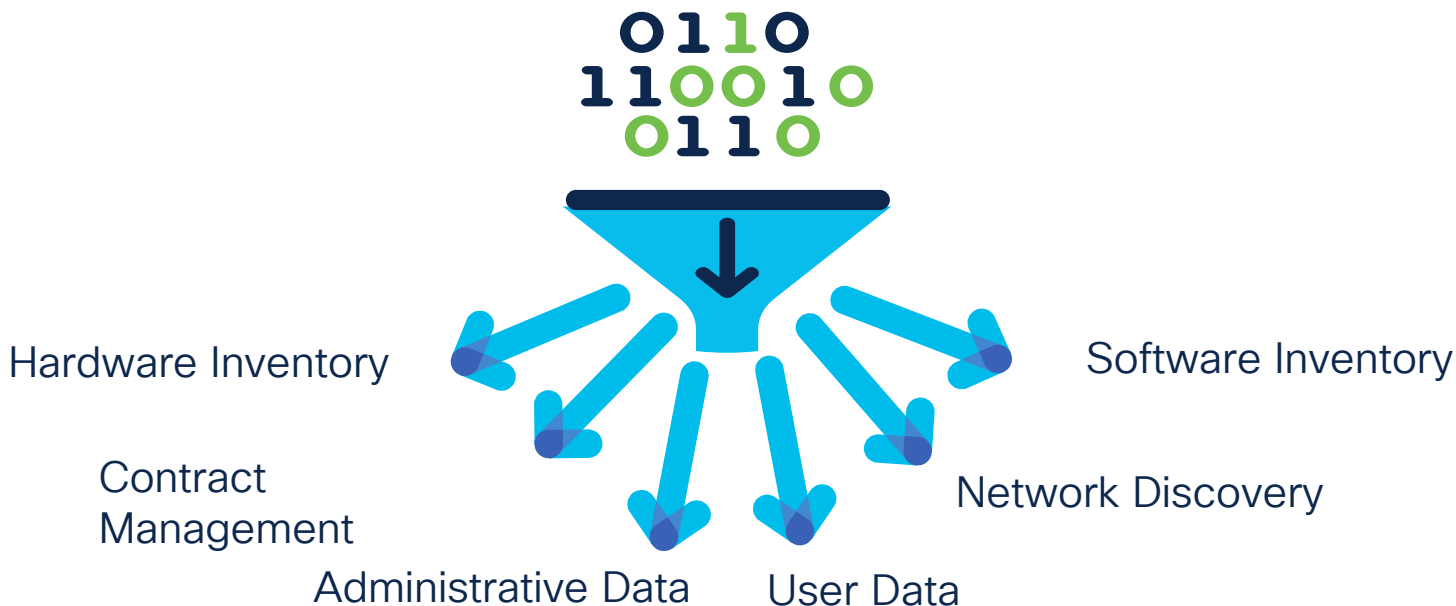
Enterprise Architecture Data

CMDB

Repository that stores information about all hardware and software assets in your environment

Attributes

Incident Management, Escalation Engine, Reports Engine, Service Level Agreements



Business Operating Model for EA

Standardization and Integration

- To what extent does one business success rely on availability, accuracy and timeliness of others data?
- To what extent does the company benefit from having business units run operations the same way?

Coordination

- High integration with little standardization of processes
- Data is shared across the portfolio
- Business units release individual innovation

Unification

- Centralized management and process design
- Centrally mandated data bases
- Centralized IT organization

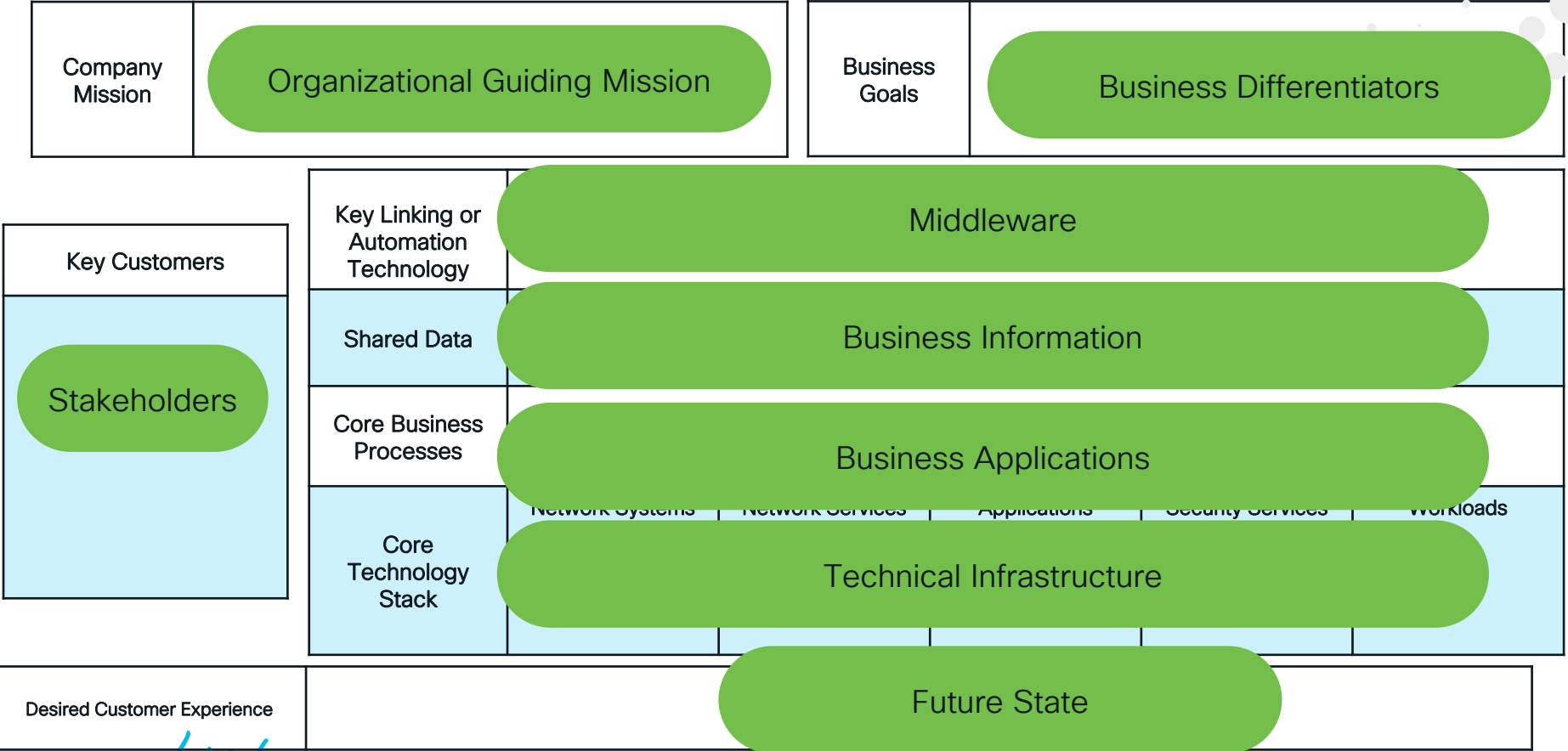
Replication

- Autonomy to business units
- Run operations in standardized fashion
- Growth through Acquisitions

Diversification

- Independence with Shared Services
- Few Common Customers or Business Practices
- Shared IT services for economies of scale

Core Framework



Example: The “General Hospital”



The 'General Hospital'



- 10 Hospital System
- Multiple Specialties
- Individual IT and OT Networks
- Limited Resources

Stakeholders



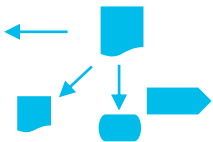
- CIO/CIDO
- Network Engineers
- Developers
- Patients and Providers
- Cloud Architects
- PMO
- Security

Operating Model



- Organizational Alignment
- Centralized IT Systems
- Centralized Data Management

Enterprise Architecture Data



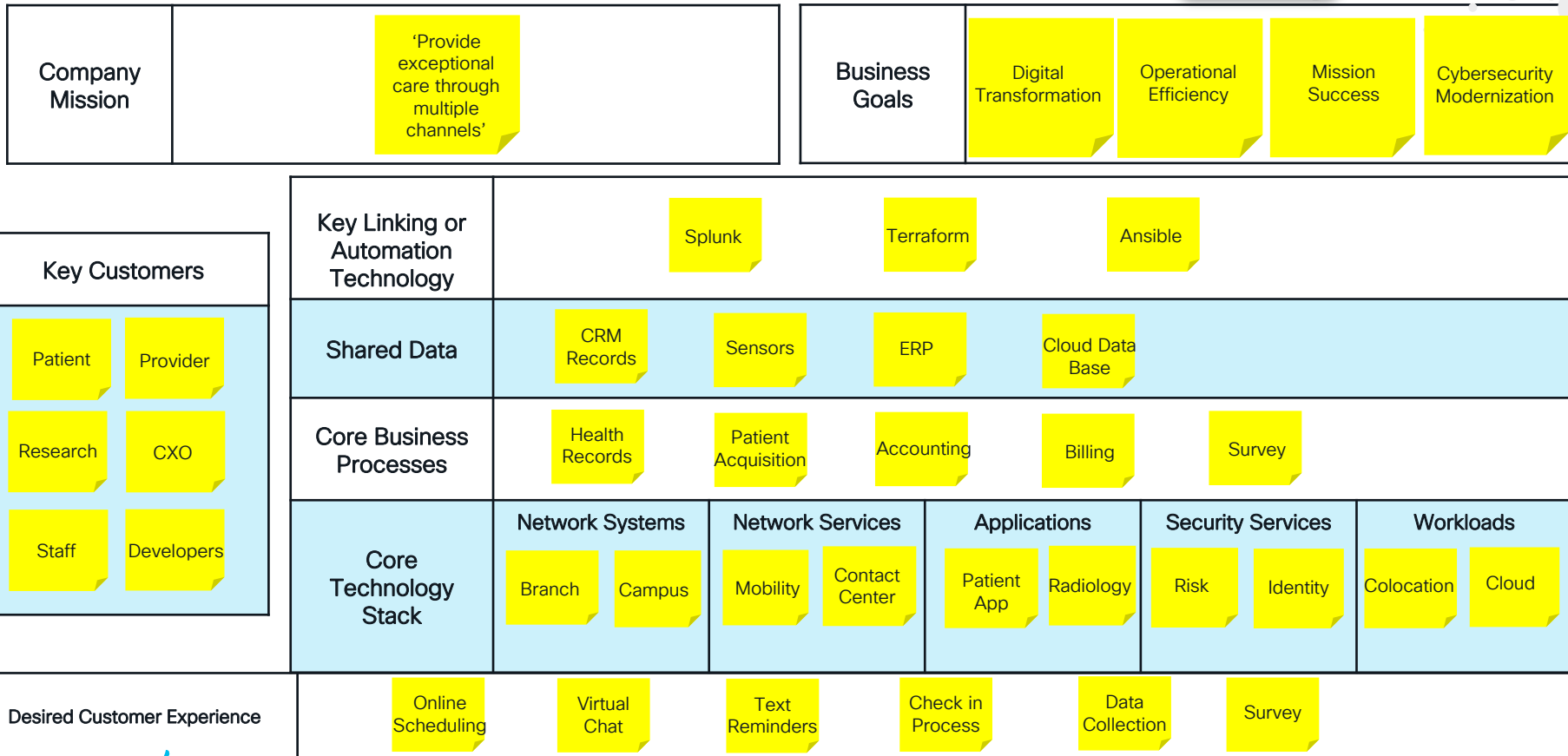
- Network Design
- Dependencies for patient care
- Home Grown Patient Apps
- Lifecycle Management of IT
- OT Network Design

Core Framework

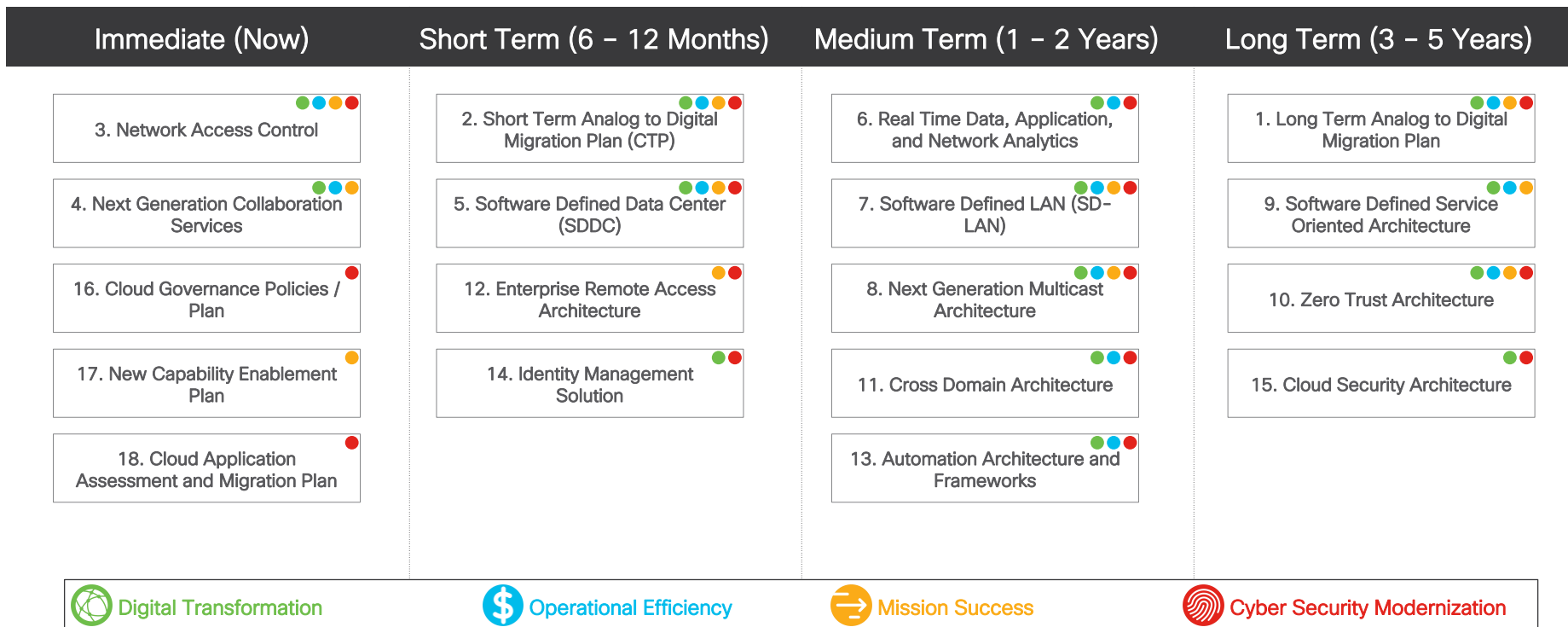


- Patient Centric
- Operational Capabilities
- Management Tools

Core Framework: The General Hospital



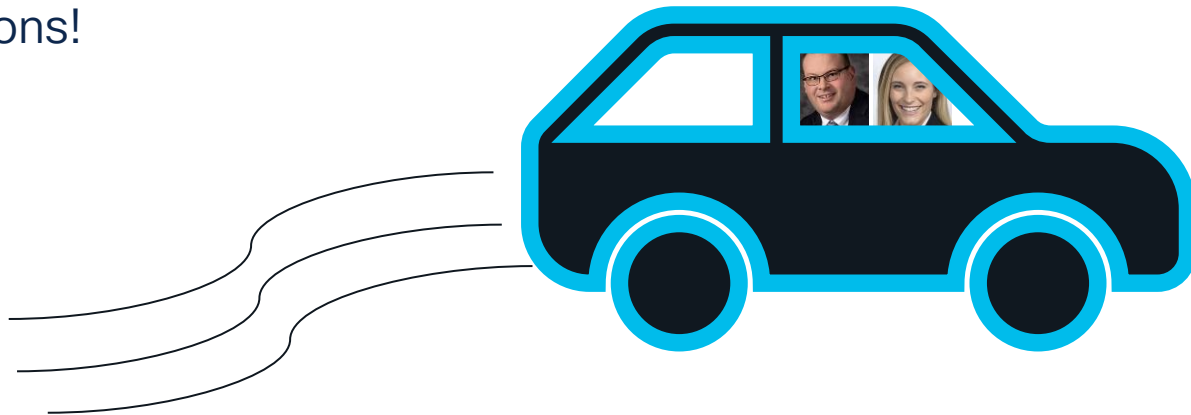
Digital Mission Roadmap (Example)



What's Next?

Architecture is not defined overnight

- Document your Operating Model
- Encourage Architecture Reviews and use your resources
- Ask the Right Questions!



Technical Session Surveys

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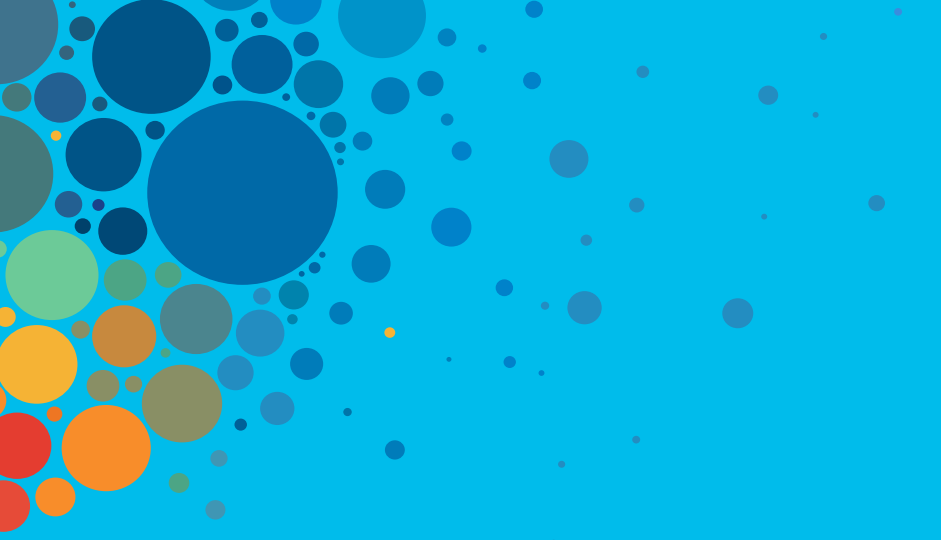
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The bridge to possible

Thank you

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