

November 2019

MEDTRONIC

FEDERATING ENTERPRISE ARCHITECTURE

Grant Ecker

Sr. IT Director, Enterprise Architecture



Medtronic

TODAY'S CONVERSATION

MEDTRONIC OVERVIEW

Who are we?
What do we do?
How do we do it?

THE ARCHITECTURE VALUE PROPOSITION

What is the purpose?
How is it approached?
What are the services?

FEDERATING ARCHITECTURE

Why federate?
How is it structured?
What are the benefits?

DISCUSSION

What have you seen?
Where can we create insights?

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MEDICAL TECHNOLOGY IS WHAT WE DO. IT'S WHAT WE'VE ALWAYS DONE.

You may know us as
the **pacemaker** company,
the **diabetes pump** maker, or
deep-brain stimulation experts —
and we do so much more.



1
WHO
WE ARE

2
WHAT
WE DO

3
HOW
WE
DO IT

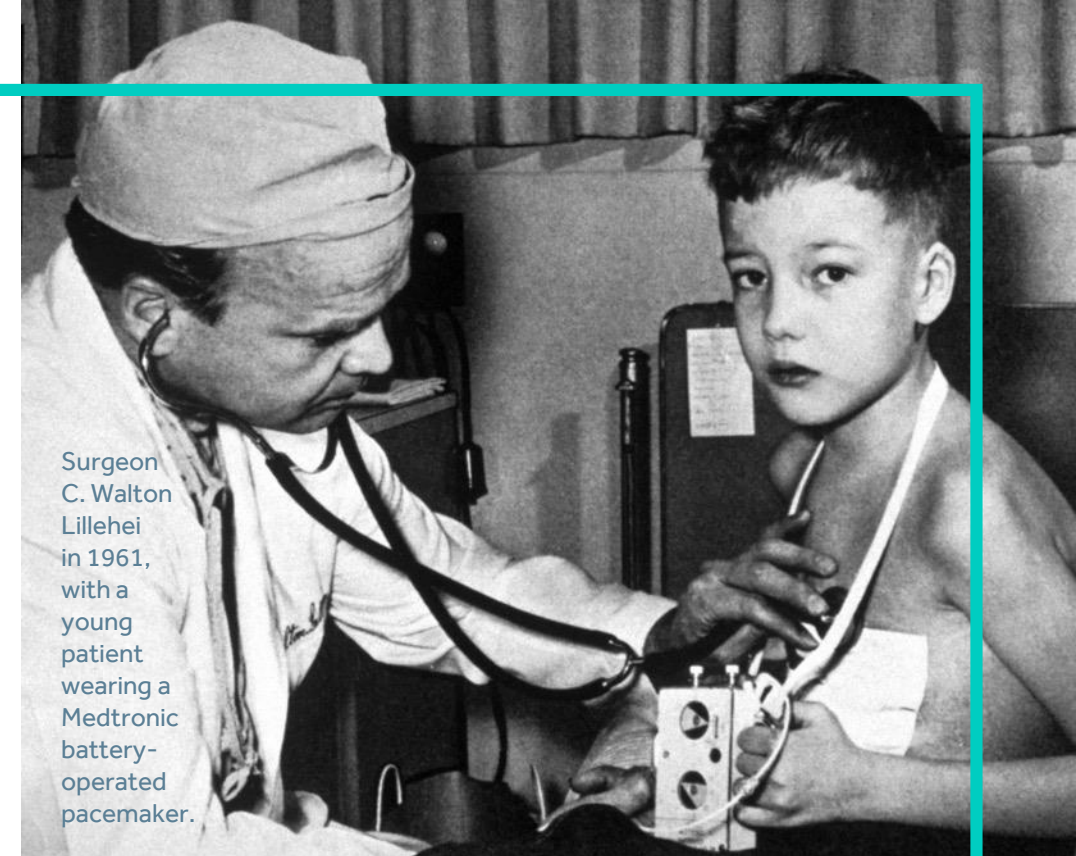
WHO WE ARE



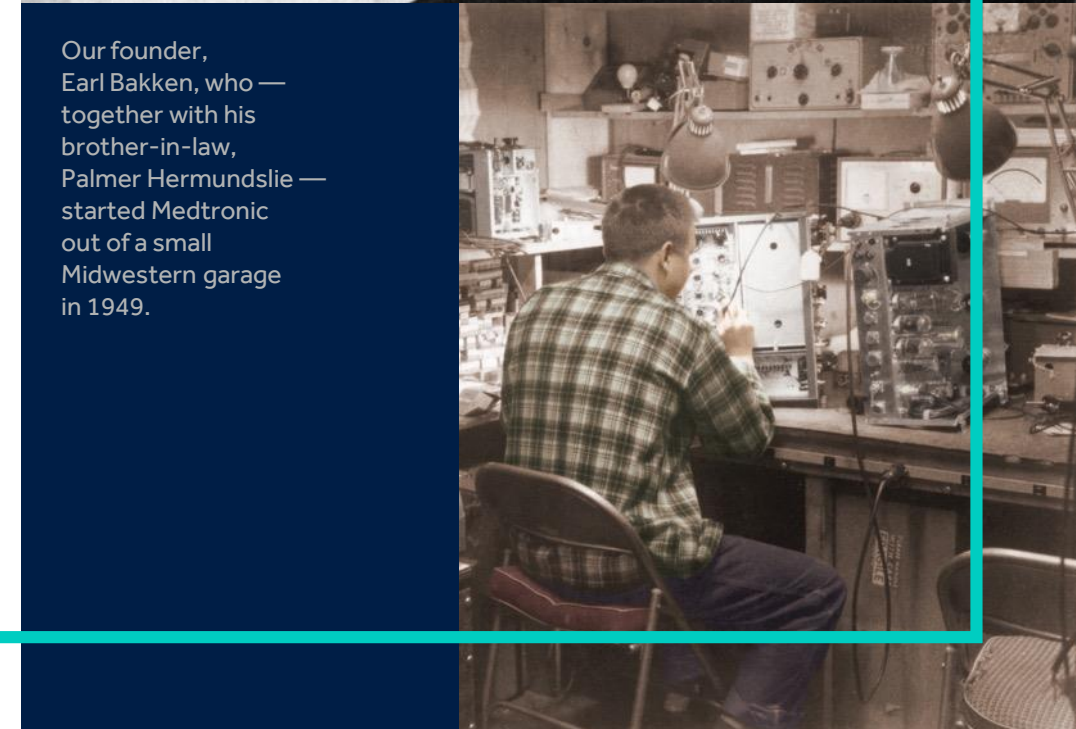
Medtronic

FOUNDED ON INNOVATION AND COLLABORATION

Since the late 1940s, we have been working with others to **alleviate pain, restore health, and extend life.**



Surgeon C. Walton Lillehei in 1961, with a young patient wearing a Medtronic battery-operated pacemaker.



Our founder, Earl Bakken, who — together with his brother-in-law, Palmer Hermundslié — started Medtronic out of a small Midwestern garage in 1949.

WRITTEN IN 1960, OUR MISSION
DRIVES EVERYTHING WE DO.

- 1** To contribute to human welfare by application of biomedical engineering in the research, design, manufacture, and sale of instruments or appliances that **alleviate pain, restore health, and extend life.**
- 2** To direct our growth in the areas of **biomedical engineering.**
- 3** To strive without reserve for the **greatest possible reliability and quality in our products.**
- 4** To make a **fair profit.**
- 5** To recognize the **personal worth of employees.**
- 6** To maintain **good citizenship.**



Medtronic
Further, Together

WHAT
WE
DO



Medtronic
Further, Together

COMMITTED TO HELPING TRANSFORM HEALTHCARE



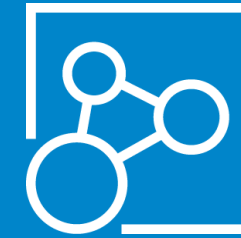
THERAPY
INNOVATION

Introducing and delivering meaningful offerings at the therapeutic, procedural, and system level



GLOBALIZATION

Addressing the inequities in healthcare access globally



ECONOMIC
VALUE

Helping lead the creation of value-based healthcare solutions

WE OFFER THERAPIES AND SOLUTIONS ACROSS OUR FOUR BUSINESS GROUPS

CARDIAC & VASCULAR GROUP

- Aortic, Peripheral & Venous
- Atrial Fibrillation Solutions
- Cardiac Rhythm and Heart Failure
- Coronary and Structural Heart

DIABETES GROUP

- Advanced Insulin Management
- Multiple Daily Injection Solutions
- Non-intensive Diabetes Therapies

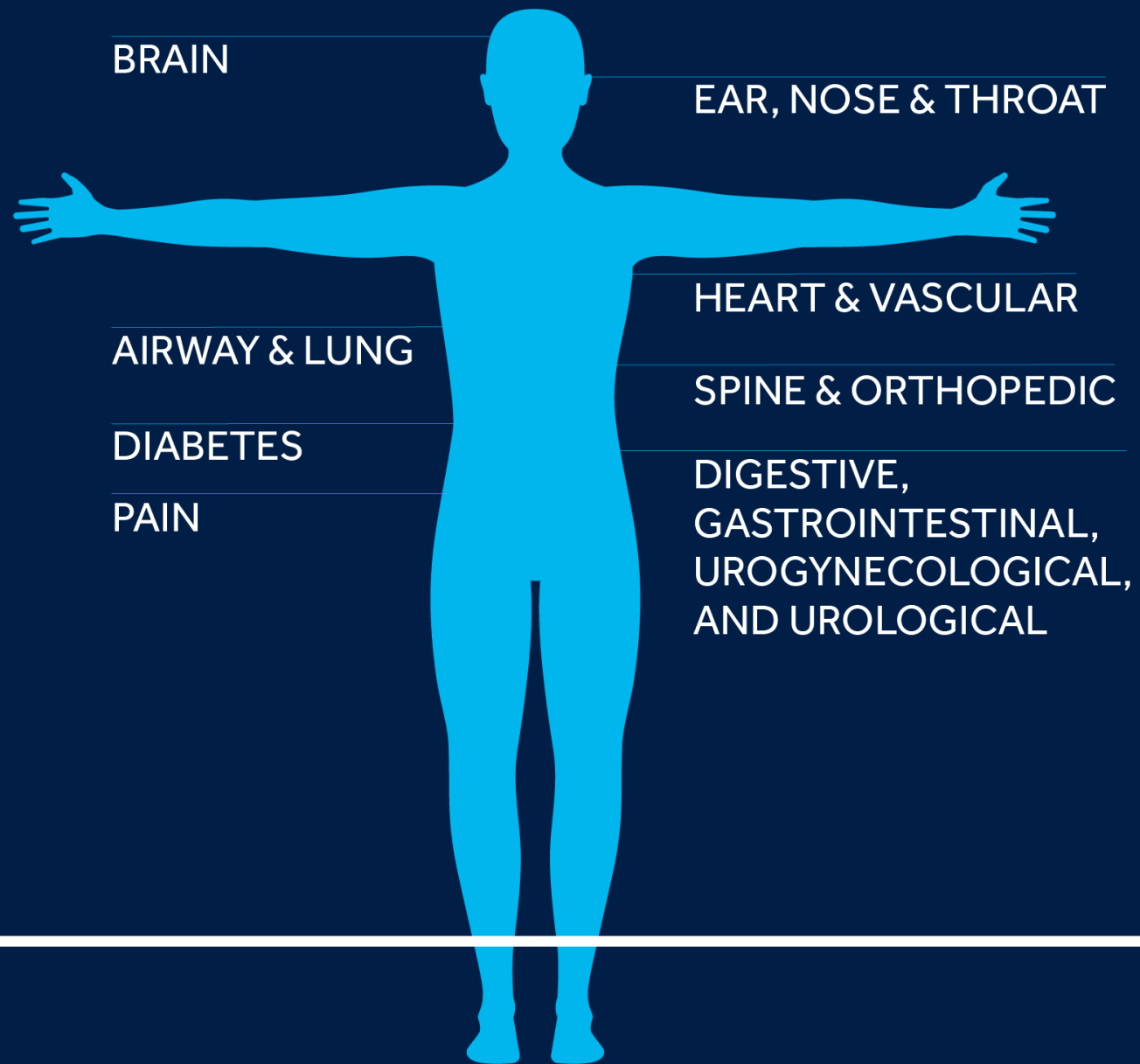
MINIMALLY INVASIVE THERAPIES GROUP

- Renal Care Solutions
- Respiratory, Gastrointestinal & Informatics
- Surgical Innovations

RESTORATIVE THERAPIES GROUP

- Brain Therapies
- Pain Therapies
- Specialty Therapies
- Spine

OUR THERAPIES AND SOLUTIONS IMPROVE LIVES



More than 70 conditions in the human body are treated with our therapies, enabling us to address chronic conditions and provide healthcare solutions

Medtronic

MEDTRONIC CONTINUES TO LEAD IN TECHNOLOGY INNOVATION

Continuous Innovation

Enhancing the clinical outcomes and economic value of existing products

Invention

creating and developing new therapies that result in new markets

Disruption

Disruptive therapies in existing markets



VisiaAF™ ICD



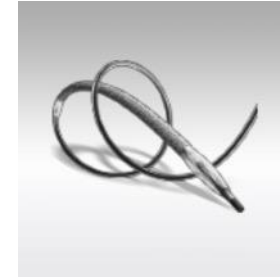
Azure™ XT DR MRI SureScan™ Pacing System



Intellis™ Implantable Neurostimulator



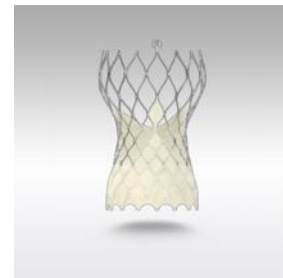
StealthStation™ Surgical Navigation



Resolute ONYX™ Drug-eluting stent



Signia™ Surgical Stapling



CoreValve™ TAVR



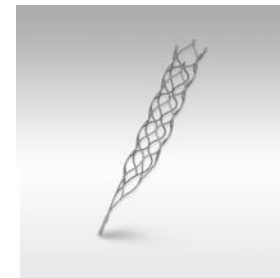
MVAD™ Left Ventricular Assist*



PillCam™ Capsule Endoscopy



Reveal LINQ™ ICM



Solitaire™ Revascularization



MiniMed™ 670G Insulin Pump System



Surgical Robotics System



Micra™ Wireless Pacing System



Arctic Front Advance™ Cryoballoon

*Pipeline — Product concept in development



HOW WE DO IT

Medtronic
Further, Together

OUR PEOPLE

EXPERTISE TO ACHIEVE OUR MISSION

86,000+
EMPLOYEES

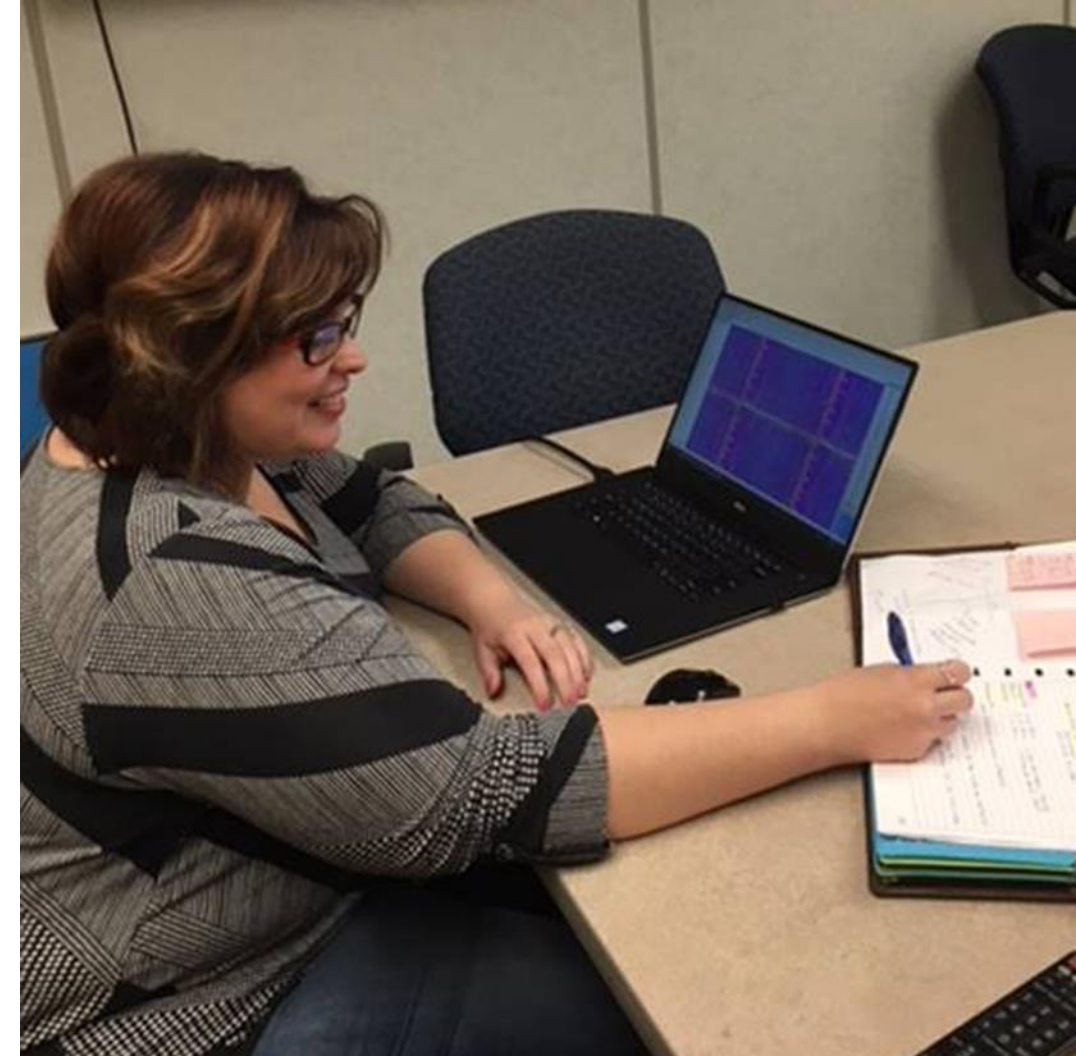
9,600+
SCIENTISTS
& ENGINEERS

1,600+
CLINICAL
PROFESSIONALS

And tremendous clinical expertise and investments*:

- \$2.3 billion in **R&D**
- \$486 million in **clinical investments**
- 4,100+ **patents**
- 350+ **clinical trials**

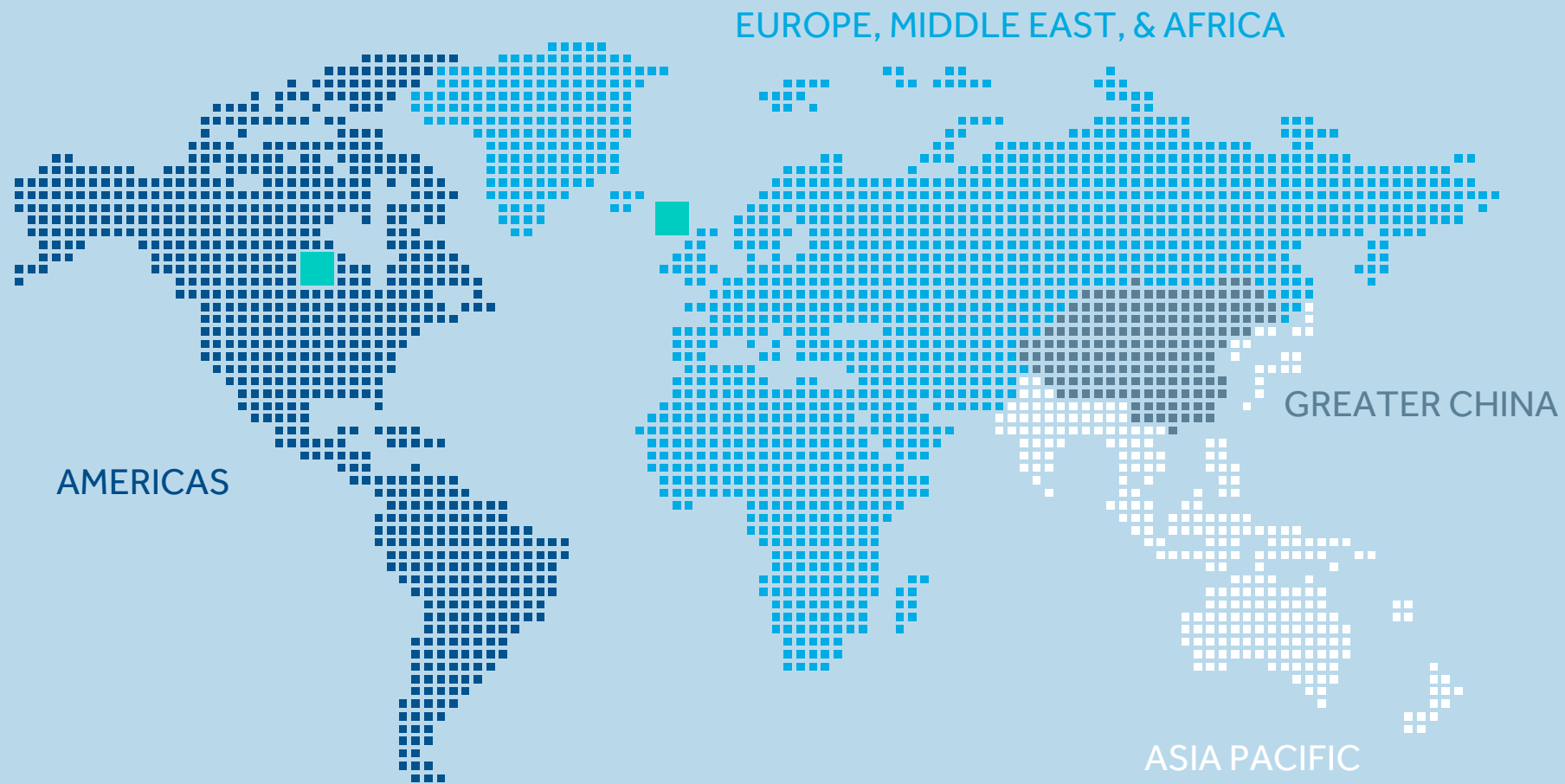
* Numbers are representative of this past year.



Medtronic employee Amanda Miranda returned to work as a biomedical engineer after spending six years away to attend to her family. Through Careers 2.0 — a Medtronic hiring initiative for women in engineering that helps them return to the industry after personal time away — Miranda found a position that fits her skills and helps her feel like she's making a difference.

OUR GLOBAL PRESENCE

HELPING MORE PEOPLE IN MORE PLACES



- Headquarter Locations
- Medtronic Operational Headquarters
Minneapolis, Minnesota
- Medtronic Principal Executive Office
Dublin, Ireland

OPERATE IN
150+
COUNTRIES

ORGANIZED IN
4
REGIONS


350+
LOCATIONS

76
MANUFACTURING
SITES



OUR RICH HISTORY OF INNOVATION

HOW WE'VE GROWN OVER THE YEARS

MEDTRONIC IS FOUNDED	CREATED FIRST BATTERY-OPERATED, EXTERNAL PACEMAKER	 WROTE OUR MISSION	INTRODUCED PROSTHETIC HEART VALVE	ESTABLISHED THE MEDTRONIC FOUNDATION	EXPANDED INTO NEURO-STIMULATION	EXPANDED INTO SPINAL CARE	EXPANDED INTO DIABETES CARE	INTRODUCED FIRST REMOTE MONITORING SYSTEM	ACQUIRED COVIDIEN	INTRODUCED THE WORLD'S SMALLEST PACEMAKER AND THE FIRST HYBRID CLOSED LOOP INSULIN DELIVERY SYSTEM	INTRODUCED THE WORLD'S SMALLEST IMPLANTABLE SPINAL CORD STIMULATOR
1949	1957	1960	1977	1979	1983	1999	2001	2002	2015	2016	2017
		 Developed the first implantable pacemaker							 Covidien is joining Medtronic		

**TOGETHER,
WE IMPROVE
THE LIVES
OF PEOPLE
AROUND
THE WORLD**



Medtronic
Further Together

THE ARCHITECTURE VALUE PROPOSITION

MEDTRONIC OVERVIEW

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ENTERPRISE ARCHITECTURE

SHAPING STRATEGY, OUTCOMES & SOLUTIONS

Your partner to shape strategies and outcomes through transformative services and solutions to deliver business value, enterprise excellence, resilience, and quality.

ENTERPRISE ARCHITECTURE

COMPANY ALIGNMENT & VISION

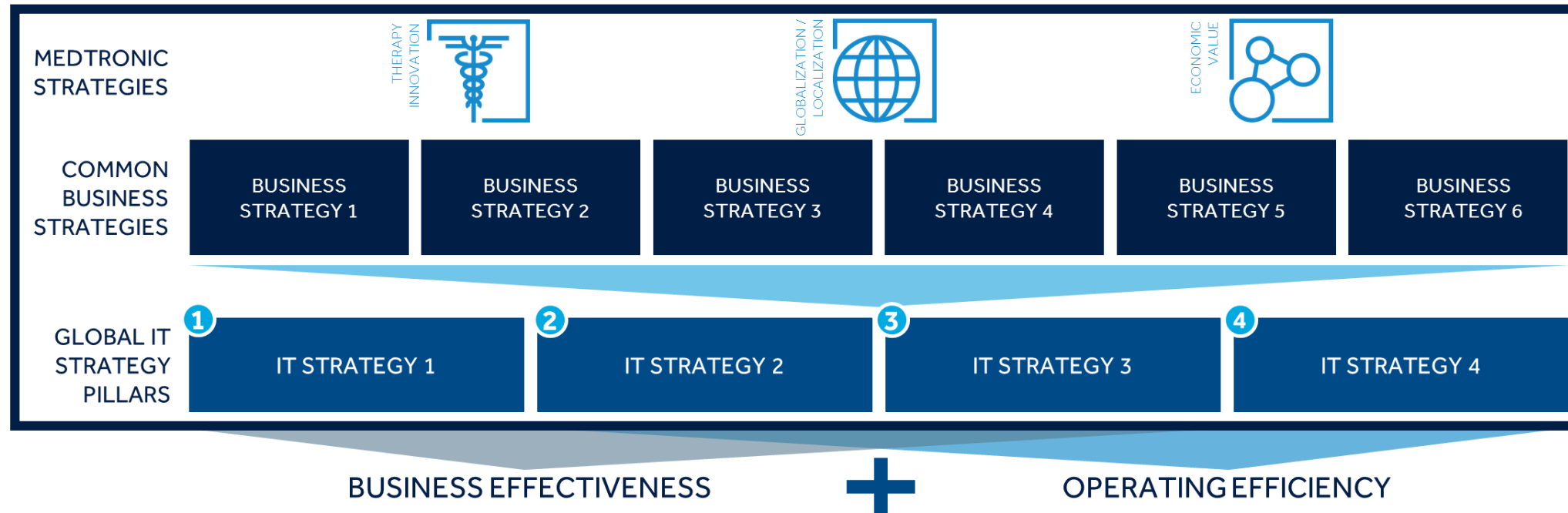
An Industry View...

Architecture is chartered to define, guide, and lead Enterprise-level activities to shape & enable strategy.

GLOBAL IT STRATEGY OVERVIEW

ALIGNED TO BUSINESS STRATEGIES & OUTCOMES

EA Value Play



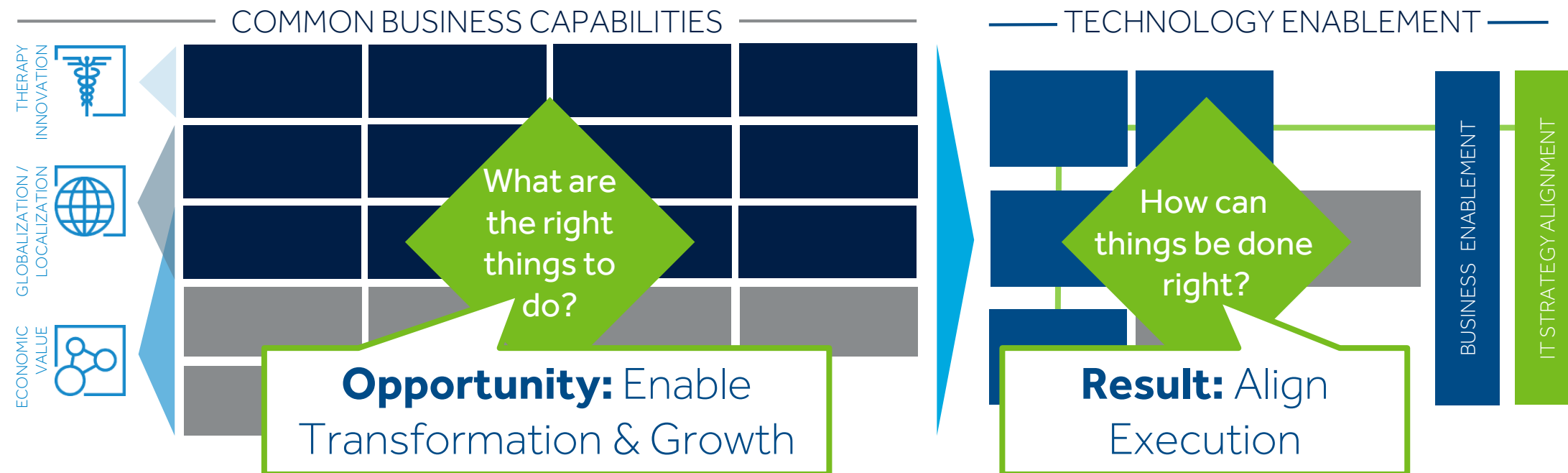
...understanding **what** the business needs and translating these needs into...

how to deliver to enhance business capabilities and value...

ENTERPRISE ARCHITECTURE VALUE

THE ARCHITECTURE APPROACH

Make enterprise choices on WHAT to do and right size our HOW to our scope, aligned with strategy

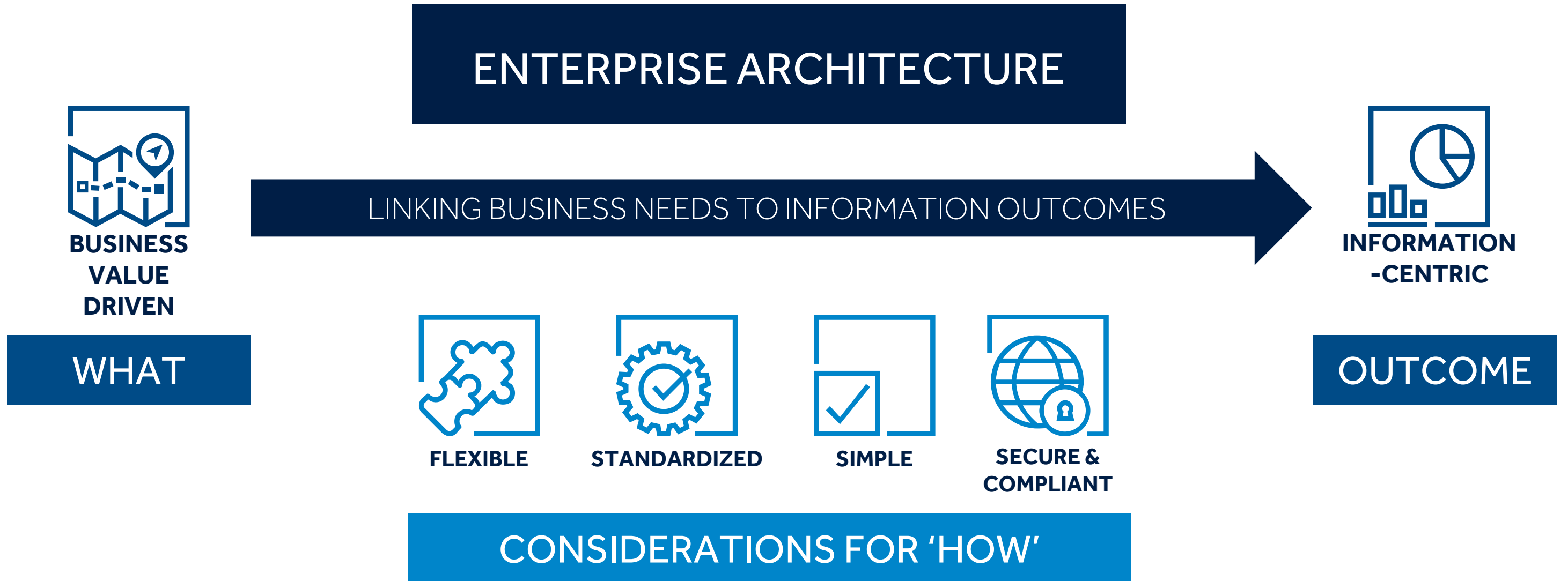


KEY BENEFITS

- Engaging as a strategic partner providing business enablement consulting and delivery.
- Creating information driven innovations to deliver customer-centric outcomes.
- Connecting siloed efforts to optimize delivery across BUs, Regions and Functions.

ENTERPRISE ARCHITECTURE

LINKING BUSINESS NEEDS TO INFORMATION OUTCOMES



ARCHITECTURE'S VALUE TO THE ENTERPRISE

DEVELOPING STRATEGY OFFERINGS & CONTINUING TO GUIDE EXECUTION

Architecture is developing IT and business strategy consulting services...
while continuing to offer traditional architecture execution support services

Highest Priority to Develop/Mature	
Manage Business Architecture	IT Strategic Plan
Demonstrate Digital Opportunities	Future State Architecture
Facilitate Digital Strategy Decisions	Introduce New Technologies
Voice of the Customer	Manage Information Architecture
Digital Business Consulting	Agile & Product IT Adoption

Medium Priority
IT Modernization
IT Vendor Assessments
Set Technology Standards
Roadmaps
Integration Management
Reference Architecture

Lower Priority
IT Standards Governance
Project Delivery
Solution Architecture
Solution Design Reviews
Assess Current State

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Highest Priority to Develop/Mature

Medium Priority

Lower Priority

BUT WAIT...

DOES THIS FOCUS

VARY ACROSS IT?

LET'S START TO ANSWER THAT QUESTION
WITH ANOTHER QUESTION...

Who is architecture's Customer?

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LET'S FIND OUR CUSTOMER WITH QUESTIONS...

Who uses architecture?

Who pays for architecture?

Who benefits from
architecture?

Who supports
architecture?



Who

FIRES

Architecture?

WHO IS ARCHITECTURE'S PRIMARY CUSTOMER?

WHAT DO YOU THINK?

The Business

Votes?

Why?

The CIO's Staff

Votes?

Why?

Project Teams

Votes?

Why?

OUR CUSTOMERS = THE CIO'S STAFF & OUR ARCHITECTS

DELIVERING FOR THEIR BUSINESS STAKEHOLDERS

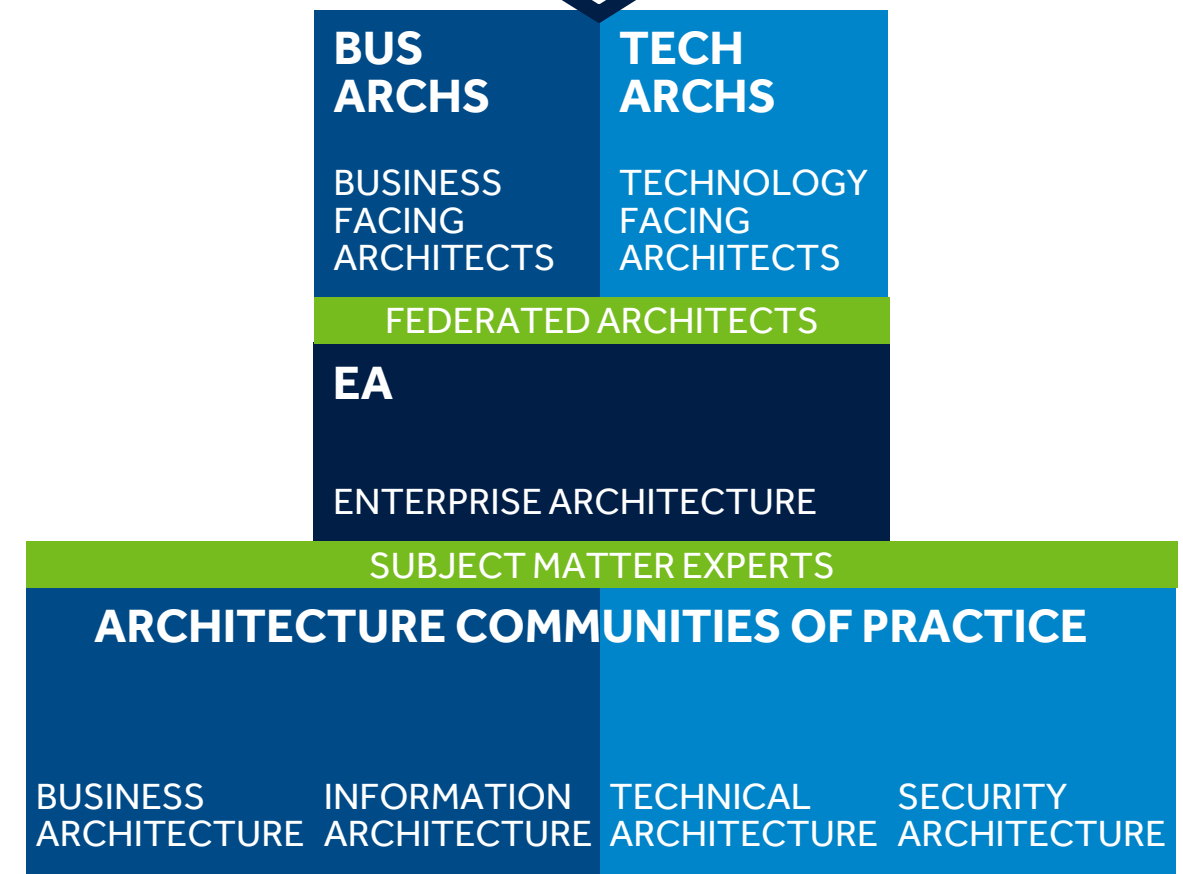
We support the business as an architecture community on behalf of our IT leadership



What DELIGHTS IT Leadership?

Outstanding Results!
*Delivered by developing
their own people!*

That's why these
are also customers!



ARCHITECTURE'S VALUE TO THE ENTERPRISE

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ARCHITECTURE'S VALUE TO THE ENTERPRISE

DEVELOPING STRATEGY OFFERINGS & CONTINUING TO GUIDE EXECUTION

Architecture is developing IT and business strategy consulting services...

HOWEVER: unless the CIO's staff demands these services, our focus will gravitate to today's needs

<i>Highest Priority to Develop/Mature</i>	
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ARCHITECTURE'S VALUE TO THE ENTERPRISE

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Architecture is developing IT and business strategy consulting services...

AND: with federated architects localizing these services, our relevant application drives our maturity

Highest Priority to Develop/Mature	
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Example priorities for a CIO's staff leader

FEDERATED ARCHITECTURE ORG STRUCTURE

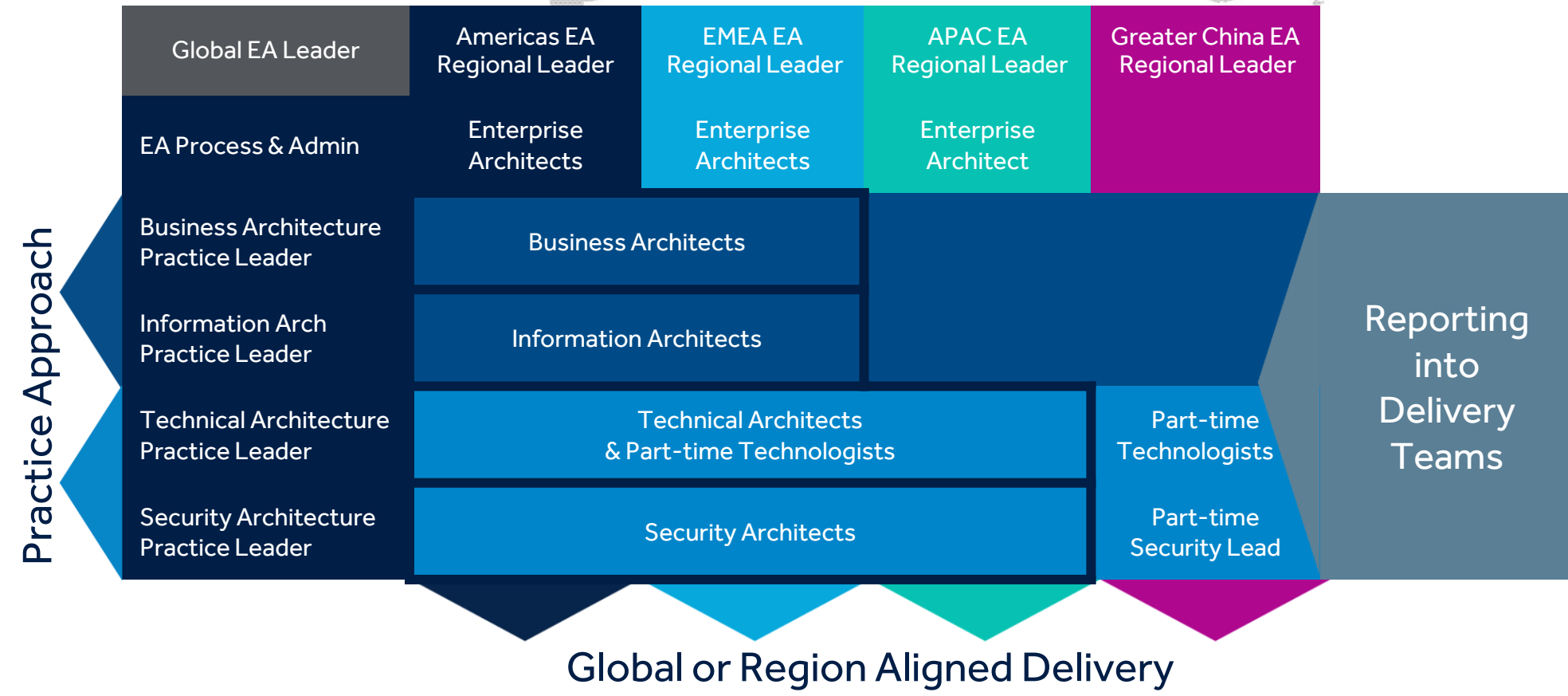
ENTERPRISE ARCHITECTURE

SHAPING STRATEGY, OUTCOMES & SOLUTIONS

ARCHITECTURE FUNCTION & ROLE ALIGNMENT

HOW ROLES ARE ALIGNED WITHIN OUR ORGANIZATIONAL MODEL

- The Enterprise Architecture organization leads practices, standards, governance, training & education
- Enterprise Architects report into the central Enterprise Architecture organization & align with CIO staff leaders
- Business & Technical Architect roles report into the functional, business and regional teams across the IT organization and are staffed based on local needs



GLOBAL IT SENIOR LEADERSHIP STRUCTURE

ALIGNED ARCHITECTS

Enterprise Architects join the CIO's staff's extended leadership teams while reporting into EA

Chief Information Officer

Federated Architects join the architecture community while reporting into IT leadership

CIO's LEADERSHIP TEAM



GLOBAL IT SENIOR LEADERSHIP STRUCTURE

A TAILORED THE FOCUS FOR EACH LEADER

IT Vice President

Business Architect

1 Understand desired business outcomes

Enterprise Architect

Chief Architect

3 Technical Architects

2 Curate architecture offerings

Highest Priority to Develop/Mature		Medium Priority	Lower Priority
Manage Business Architecture	IT Strategic Plan	IT Modernization	IT Standards Governance
Demonstrate Digital Opportunities	Future State Architecture	IT Vendor Assessments	Project Delivery
Facilitate Digital Strategy Decisions	Introduce New Technologies	Set Technology Standards	Solution Architecture
Voice of the Customer	Manage Information Architecture	Roadmaps	Solution Design Reviews
Digital Business Consulting	Agile & Product IT Adoption	Integration Management	Assess Current State
		Reference Architecture	

3 Execute in partnership



Established Strategic Direction

Align with Policies, Standards & Procedures

Execute Strategy & Manage Risks

ENTERPRISE ARCHITECTURE

SHAPING STRATEGY, OUTCOMES & SOLUTIONS

Medtronic

COMMUNITIES OF PRACTICE

OPERATIONAL STRUCTURE & FOCUS BY DISCIPLINE

Communities of practice facilitate the harmonization of architecture disciplines

Enterprise Architecture

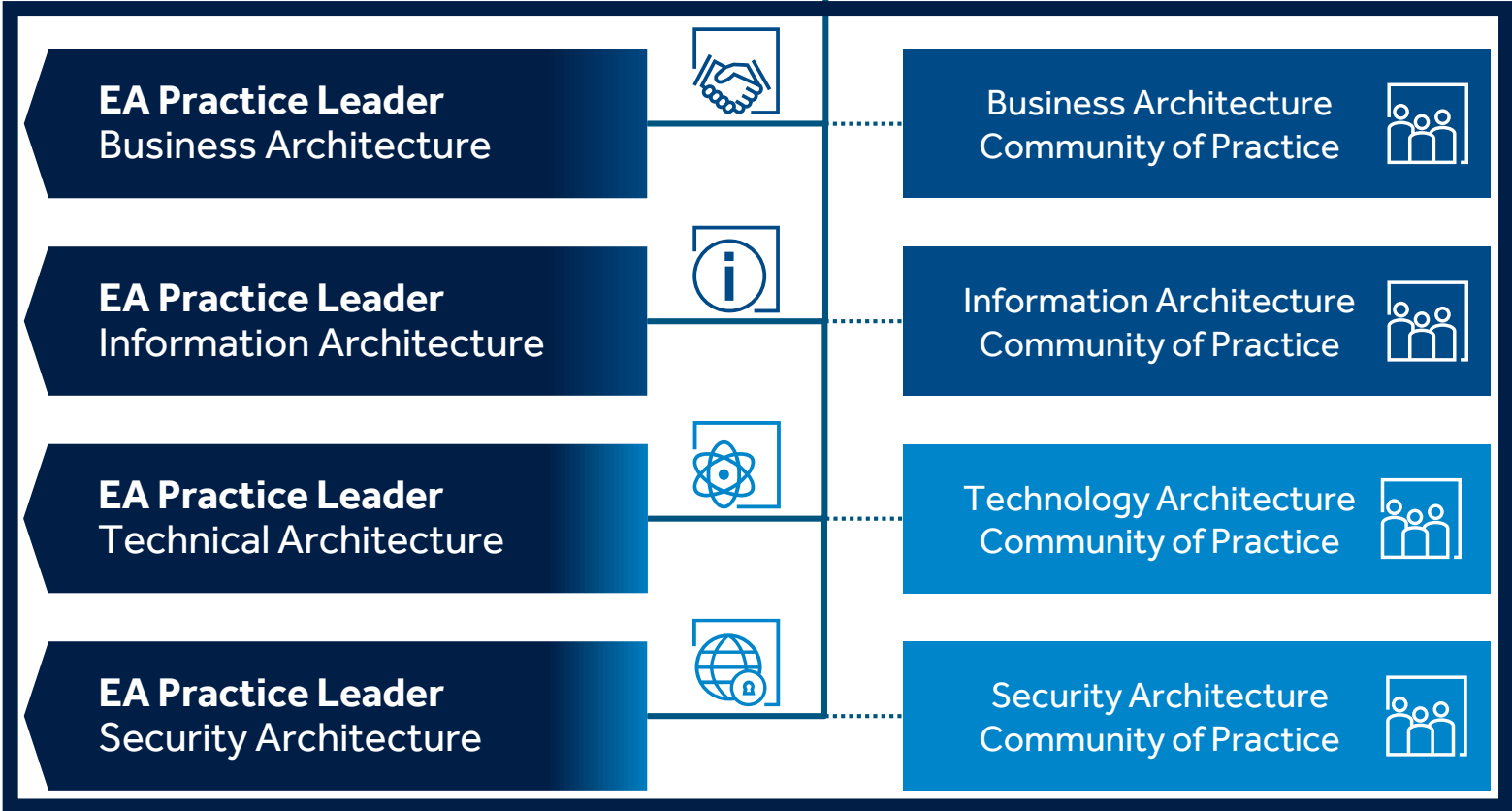
Lead the architecture practices

Architecture Practice Leaders

Enterprise Architects 

Guide architecture delivery

- Strategy
- Standards
- Patterns
- Methodology
- Techniques
- Documentation
- Metrics
- Outcomes



Performs capability modeling, gap analysis and roadmap creation

Identifies information assets and needs for reuse

Defines design aligned with strategy, guides implementation

Identifies the security capability needs then aligns & validates the security design

- Business Architects
- Enterprise Architects
- Technical Architects

COMMUNITIES OF PRACTICE

PRACTICE LED COLLABORATION ENABLING COMMUNITY DELIVERY

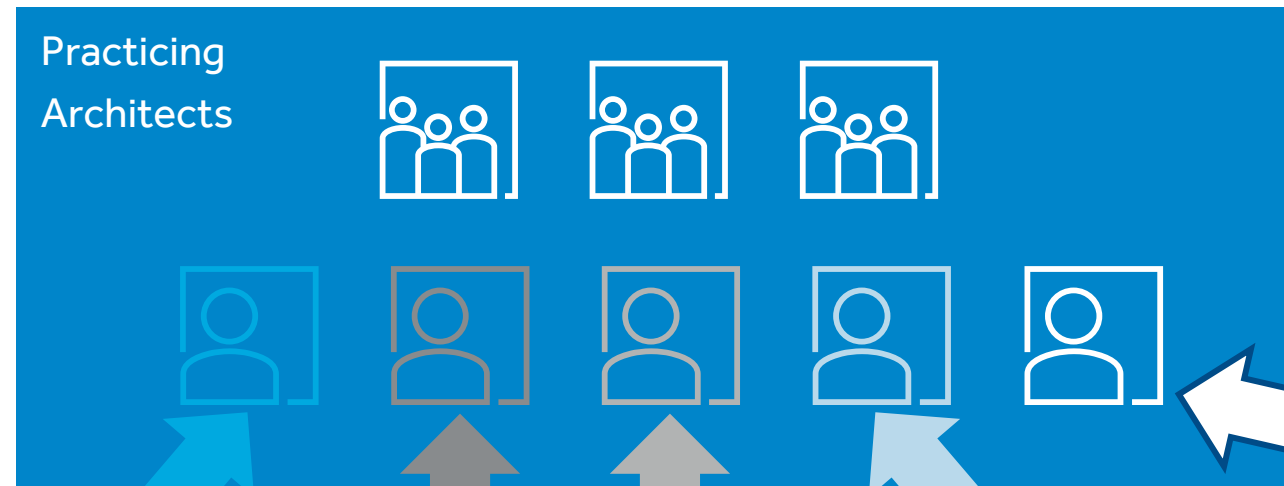
Architecture Practices:

- Is led by the practice leader
- Is joined by embedded IT architects
- Shares knowledge with its community of practice with virtual classrooms
- Creates a methodology & talent pipeline
- Enables architects to drive their delivery

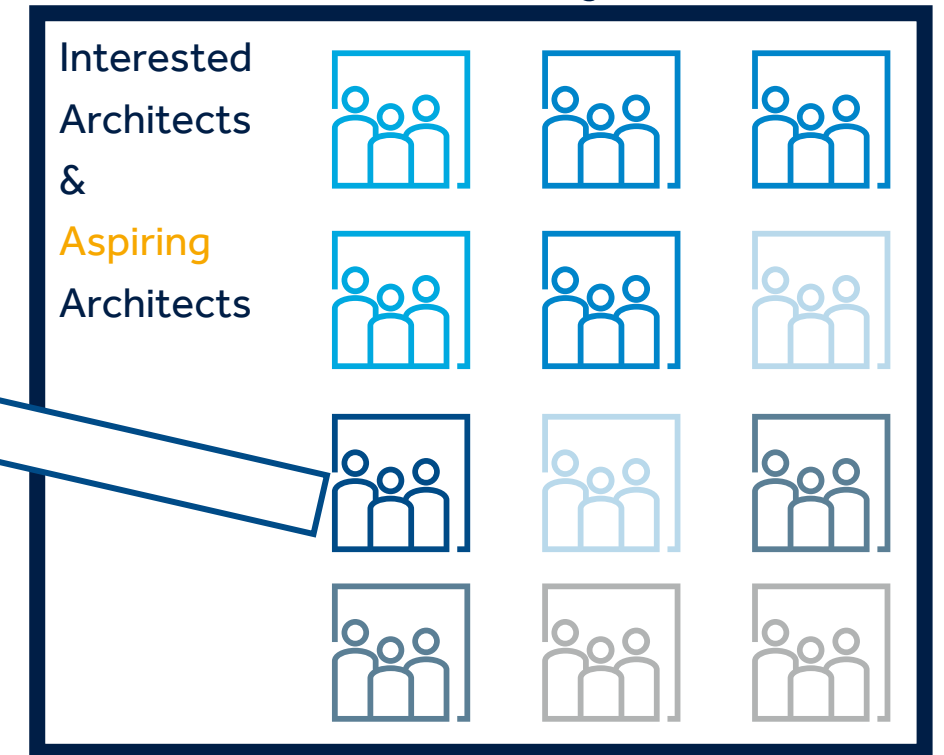


Enterprise Architect
Practice Leader

Architecture Practice



Community of Practice


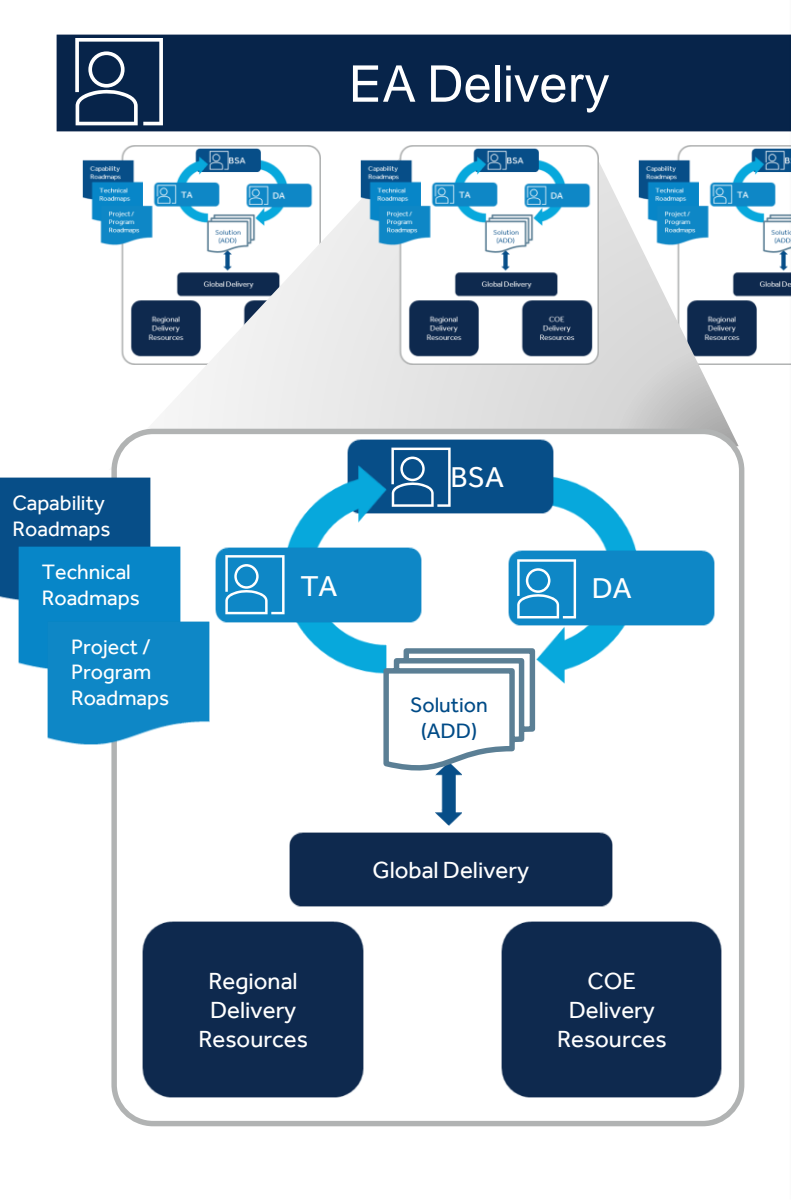


Architecture
Education Sessions
(Monthly virtual classrooms)



THE FEDERATED ARCHITECTURE MODEL

DELIVERY IS ALIGNED WITH ARCHITECT RESPONSIBILITIES

 Sr. EA Guidance	Roles	High Level Delivery Responsibilities
 <p>The diagram illustrates the federated architecture model. At the top, 'Sr. EA Guidance' oversees 'EA Delivery'. Below this, three smaller diagrams show the interaction between Business Solution Architect (BSA), Technical Architect (TA), and Domain Architect (DA) roles. The main diagram shows 'EA Delivery' at the top, with 'BSA', 'TA', and 'DA' roles in the middle. 'BSA' is connected to 'TA' and 'DA' by circular arrows. 'TA' and 'DA' are connected to 'Solution (ADD)' by arrows. 'Solution (ADD)' leads to 'Global Delivery', which is supported by 'Regional Delivery Resources' and 'COE Delivery Resources'. On the left, three boxes represent 'Capability Roadmaps', 'Technical Roadmaps', and 'Project / Program Roadmaps'.</p>	Enterprise Architect (EA)	<ul style="list-style-type: none"> Aligns Enterprise strategic technology direction, strategic capability and technical roadmaps Partners to define the solution 'how' broadly across capability areas Facilitates the architecture components of Solution Selection to ensure the delivery of business capability needs aligned with enterprise strategy, standards and governance
	Business Solution Architect (BSA)	<ul style="list-style-type: none"> Documents business capability assessments, roadmaps, and process models Defines the business 'what' capabilities and needs Maps business capability needs to the solution portfolio and partners with technical architects on roadmaps Aligns the design with EA strategy, standards and governance
	Technical Architect (TA)	<ul style="list-style-type: none"> Develops and maintains technology roadmaps Plays the role of a platform, application, data, or domain architect Defines the technology 'how' within a solution (platform, application, data) and its patterns for reuse Aligns the design with EA strategy, standards and governance

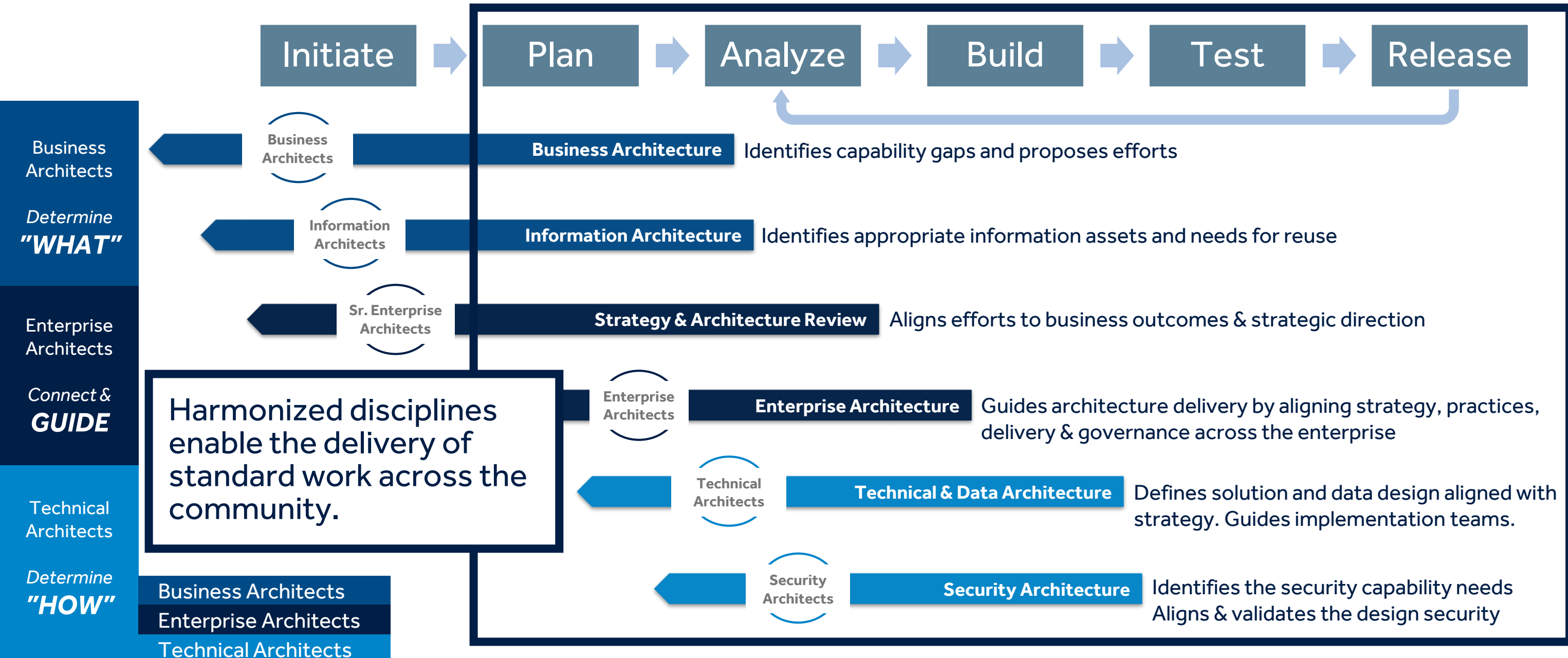
FEDERATED ARCHITECTURE PROCESS

ENTERPRISE ARCHITECTURE

SHAPING STRATEGY, OUTCOMES & SOLUTIONS

THE FEDERATED ARCHITECTURE MODEL

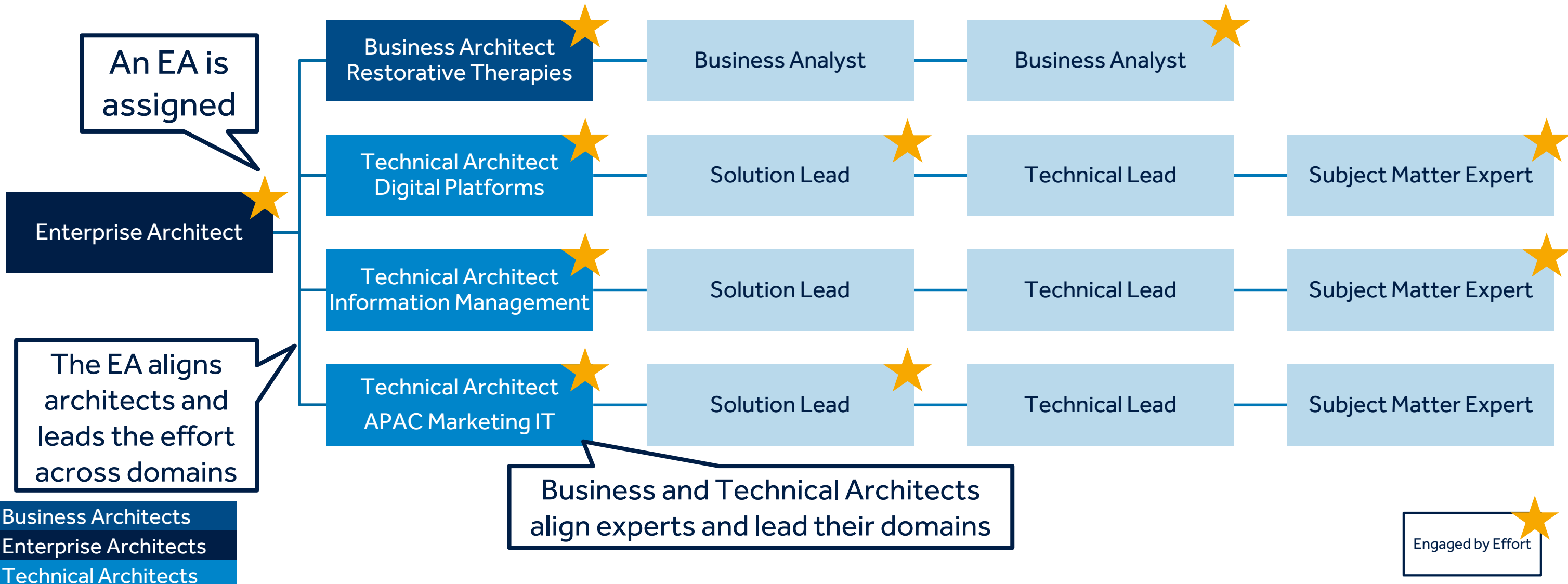
SHAPING DEMAND, GUIDING INTO EXECUTION



HOW IS ENTERPRISE WORK STRUCTURED?

WITH FEDERATED ENGAGEMENT

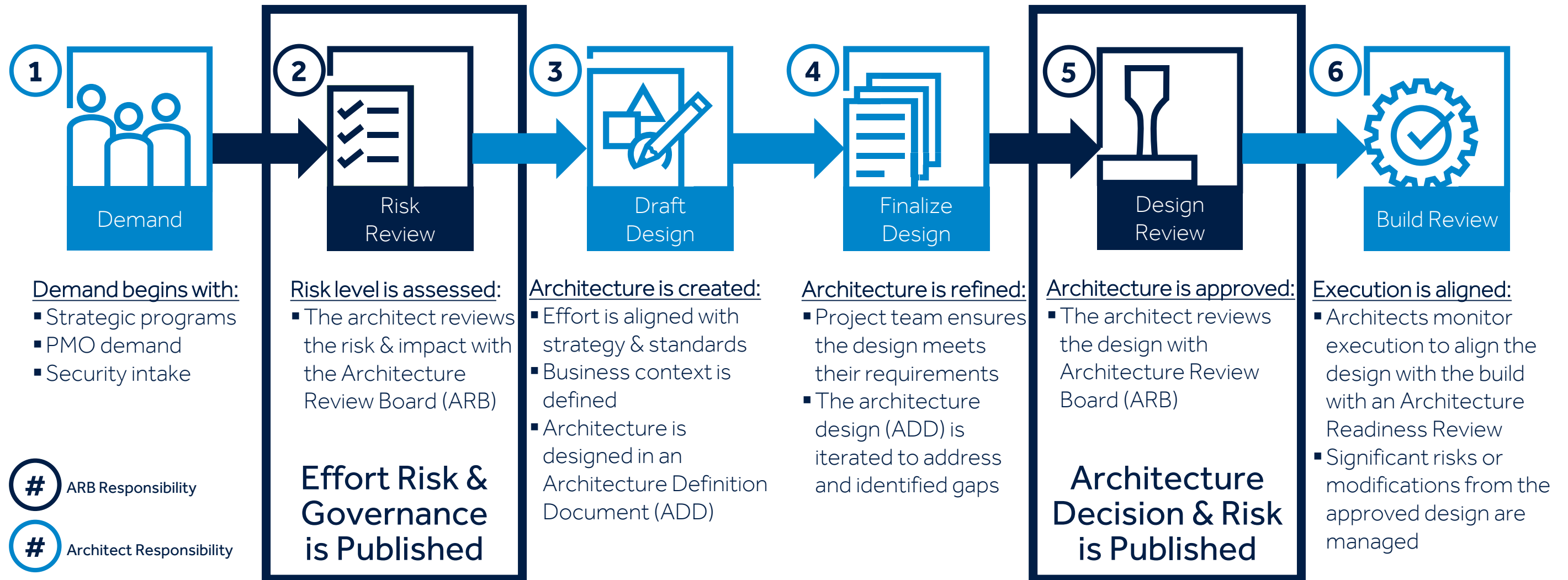
Problems are solved by those with the most knowledge, with visibility to enterprise impacts



ENTERPRISE ARCHITECTURE DELIVERY PROCESS OVERVIEW

KEY PROCESS STEPS AND ACTIVITIES

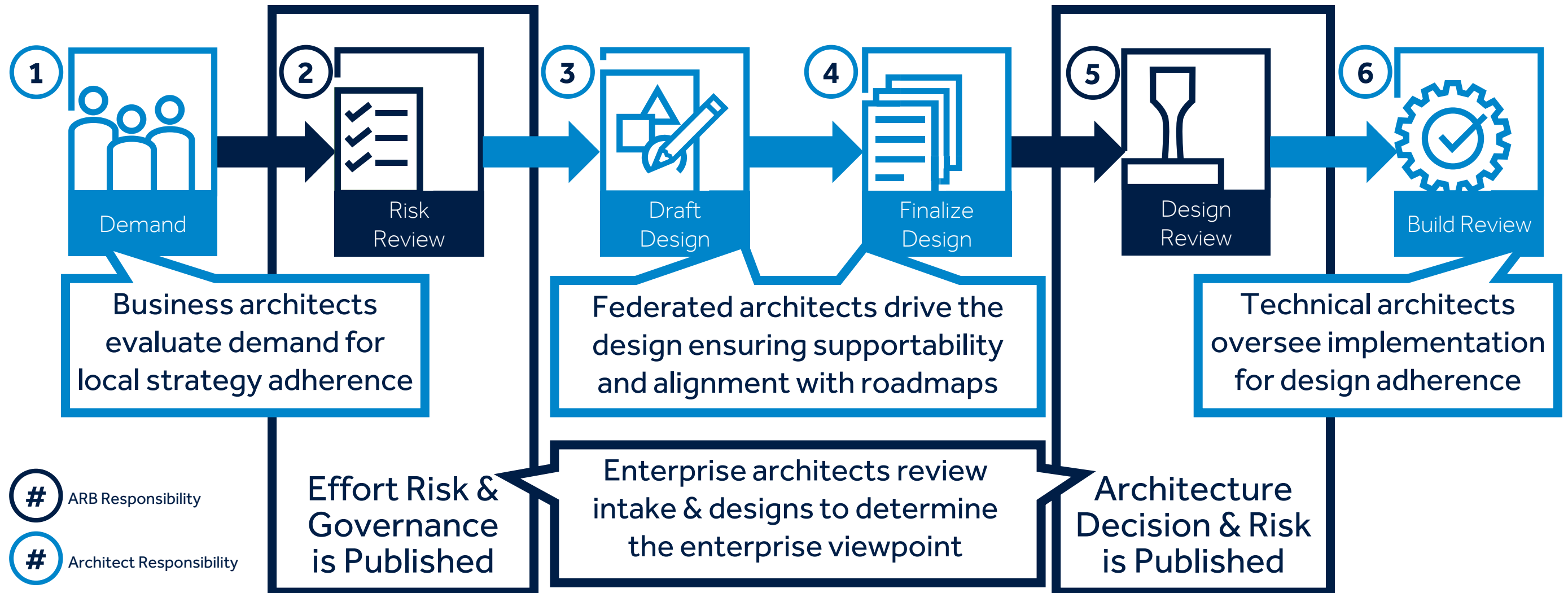
Architecture development, design, review, approval, and governance are managed as shown below:



ENTERPRISE ARCHITECTURE DELIVERY PROCESS OVERVIEW

ARCHITECTS OF HAVE BALANCING AUTHORITY & INFLUENCE...

Federated architects represent their domains & EAs provide the enterprise view



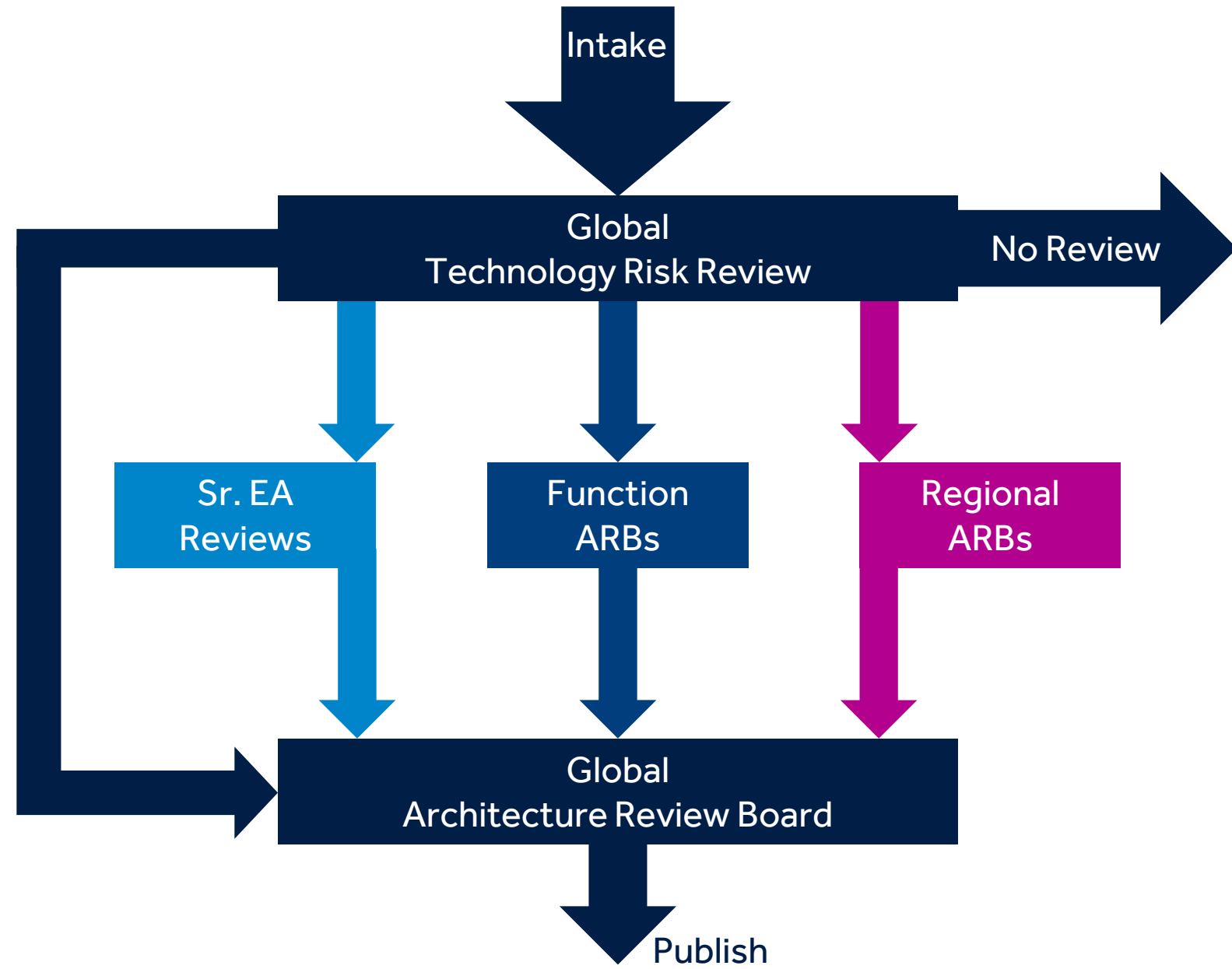
ENTERPRISE ARCHITECTURE TECHNOLOGY RISK REVIEW LEVELS & DESCRIPTIONS

Technology Risk Reviews occur as efforts exit planning:

- Programs, projects & security assessments
- Architecture efforts

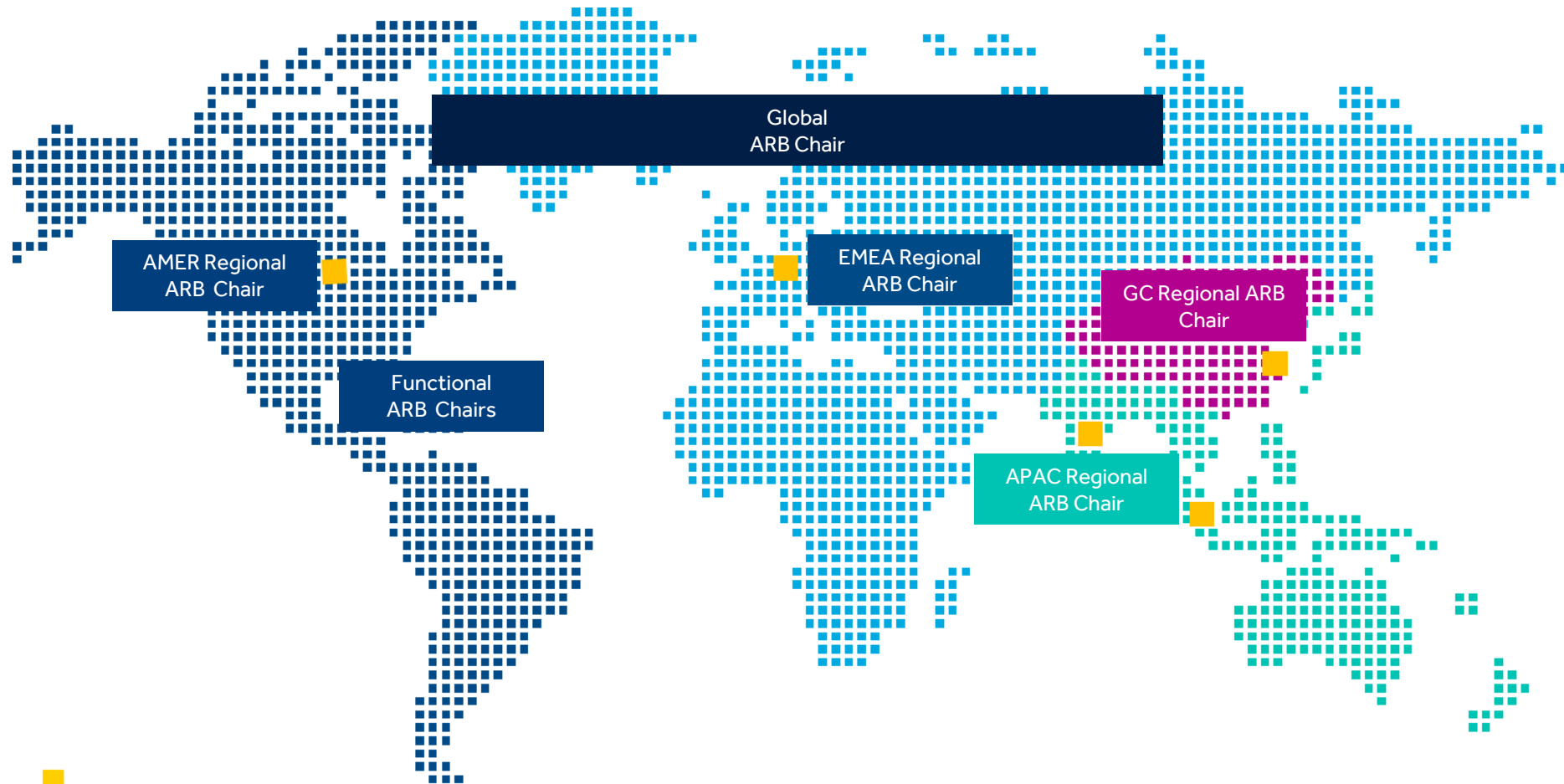
The process:

1. The effort's risk level is determined
2. The type of architecture deliverable is determined
 - 70% of efforts have a low risk and no deliverables
3. If an architecture deliverable is required the path for its review is also determined:
 - Sr. Enterprise Architect Review (small efforts)
 - Functional ARB Review (federated functional efforts)
 - Regional ARB Review (regional efforts)
 - Global ARB Review (global, strategic & high risk efforts)
4. Note: All ARB outcomes are overseen by the Global ARB prior to final approval & publication



5 ARCHITECTURE REVIEW BOARDS STRUCTURAL OVERVIEW

The Architecture Review Board (ARB) reviews architecture deliverables regionally, globally or functionally based on its intended business use & impact.



IT Hubs

OBJECTIVE: To produce a risk assessment and a decision summary:

<p>ARCHITECTURE RISK</p> <p>THE SOLUTION'S DESIGN RISK</p>	<p>QUALITY RISK</p> <p>THE DOCUMENTATION'S QUALITY OR COMPLETENESS</p>
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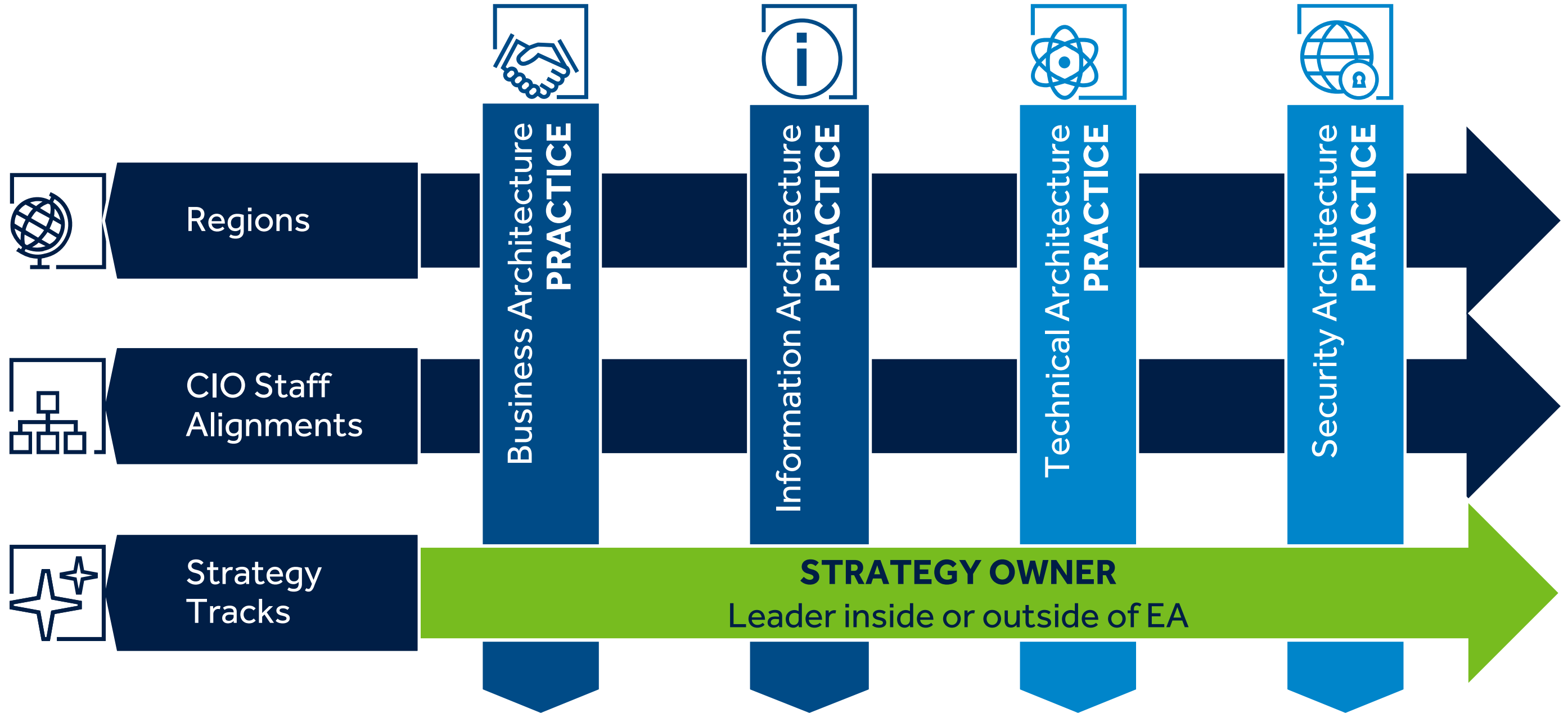
<p>OVERALL RISK</p> <p>THE SUMMARY RISK LEVEL BASED ON THE ABOVE RISKS</p>	<p>DECISION SUMMARY</p> <p>A SUMMARY OF THE ARB'S DECISION AND NEXT STEPS REQUIRED</p>
---	---

ARB reviews are performed either regionally or globally depending on the use.

The **Global ARB** oversees and publishes all architecture review outcomes.

HOW DO WE ENABLE FEDERATED STRATEGY?

THE ARCHITECTURE PRACTICES PROVIDE METHODOLOGY & ALIGNMENT



WHAT Alignment

ENTERPRISE Alignment

HOW Alignment

ENTERPRISE ARCHITECTURE

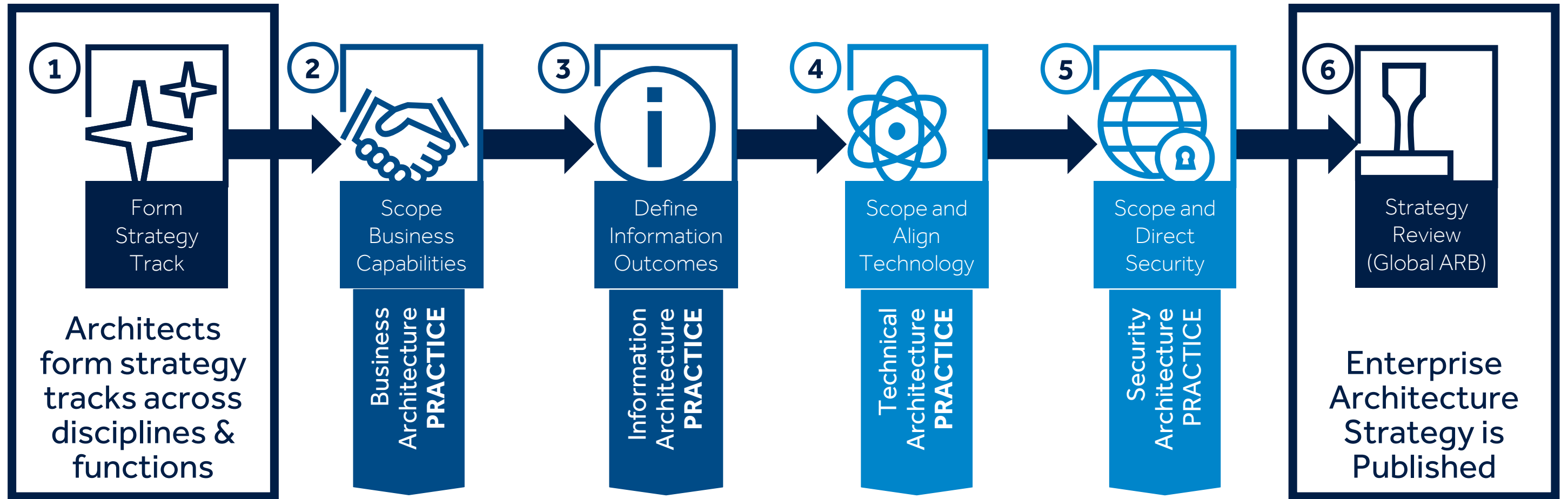
SHAPING STRATEGY, OUTCOMES & SOLUTIONS

Medtronic

ENTERPRISE IT STRATEGY DELIVERY PROCESS OVERVIEW

STRATEGY TRACKS ARE GUIDED BY THE ARCHITECTURE PRACTICES...

Federated architects lead their domain's strategy tracks & join enterprise strategy tracks



WHAT Alignment

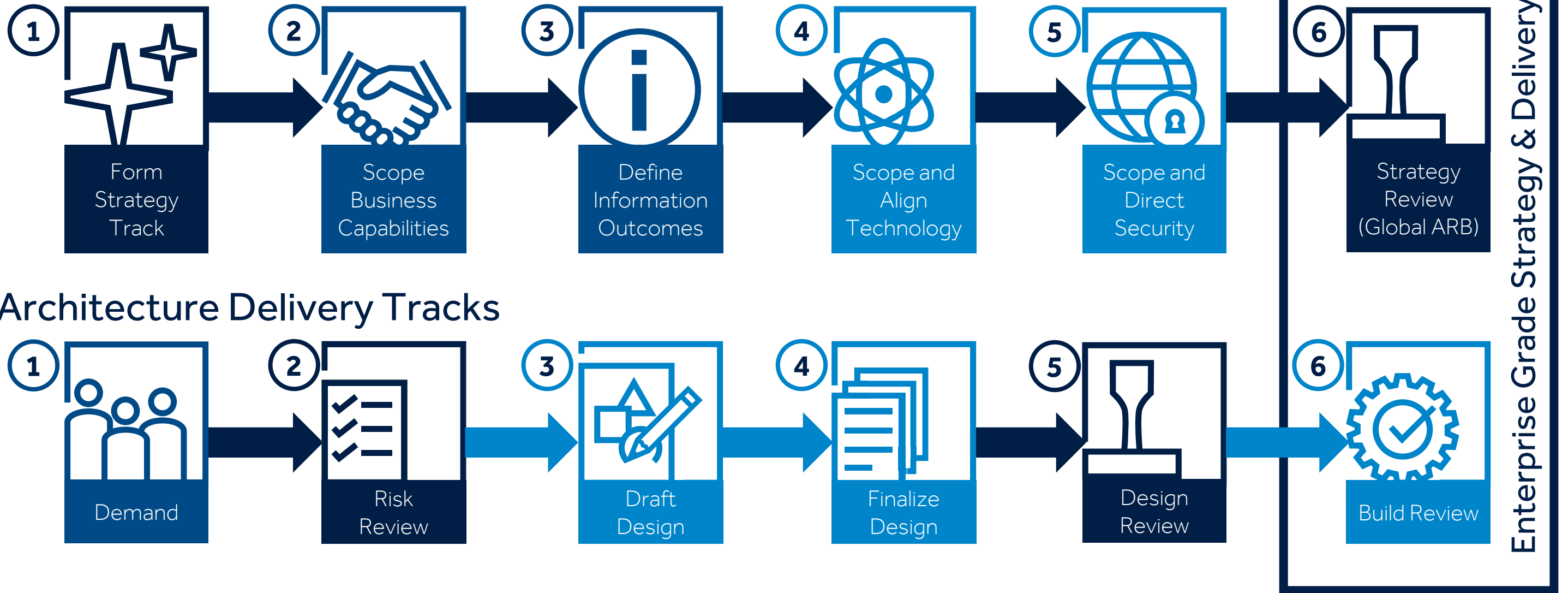
ENTERPRISE Alignment

HOW Alignment

THE ENTERPRISE ARCHITECTURE PROCESS

DELIVERS ENTERPRISE GRADE DELIVERY AND STRATEGY

Architecture Strategy Tracks



WHAT Alignment

ENTERPRISE Alignment

HOW Alignment

FEDERATED ARCHITECTURE OPERATING MODEL

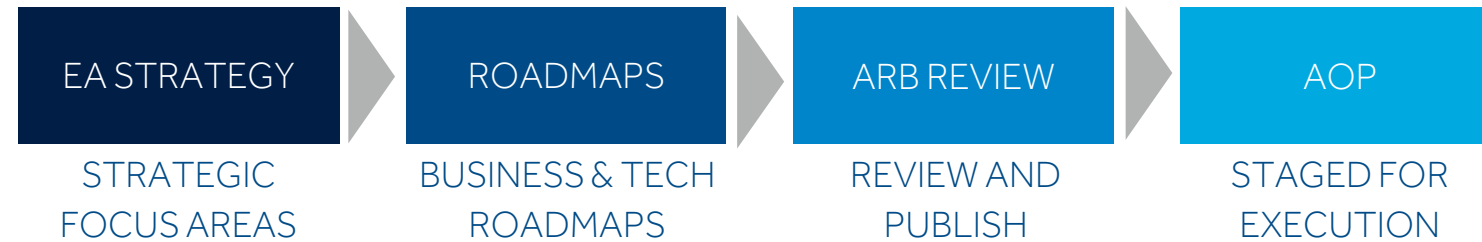
ENTERPRISE ARCHITECTURE

SHAPING STRATEGY, OUTCOMES & SOLUTIONS

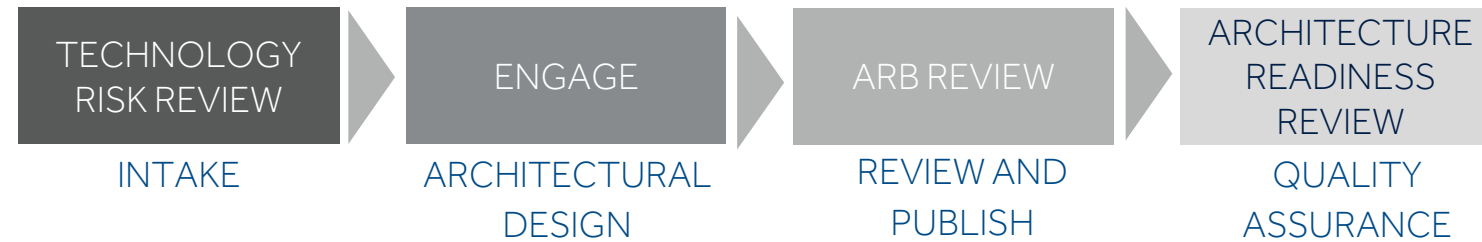
ENTERPRISE ARCHITECTURE OPERATING MODEL



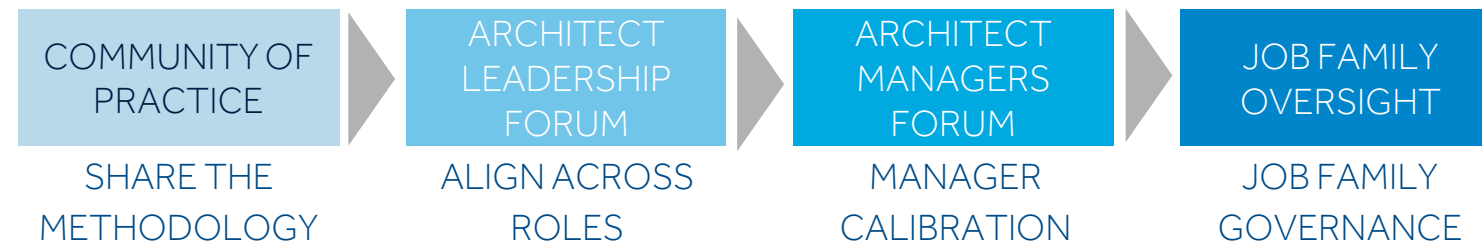
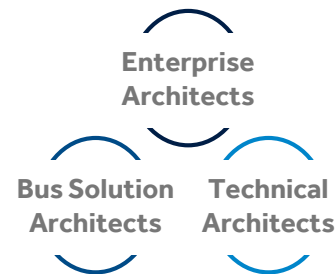
STRATEGY



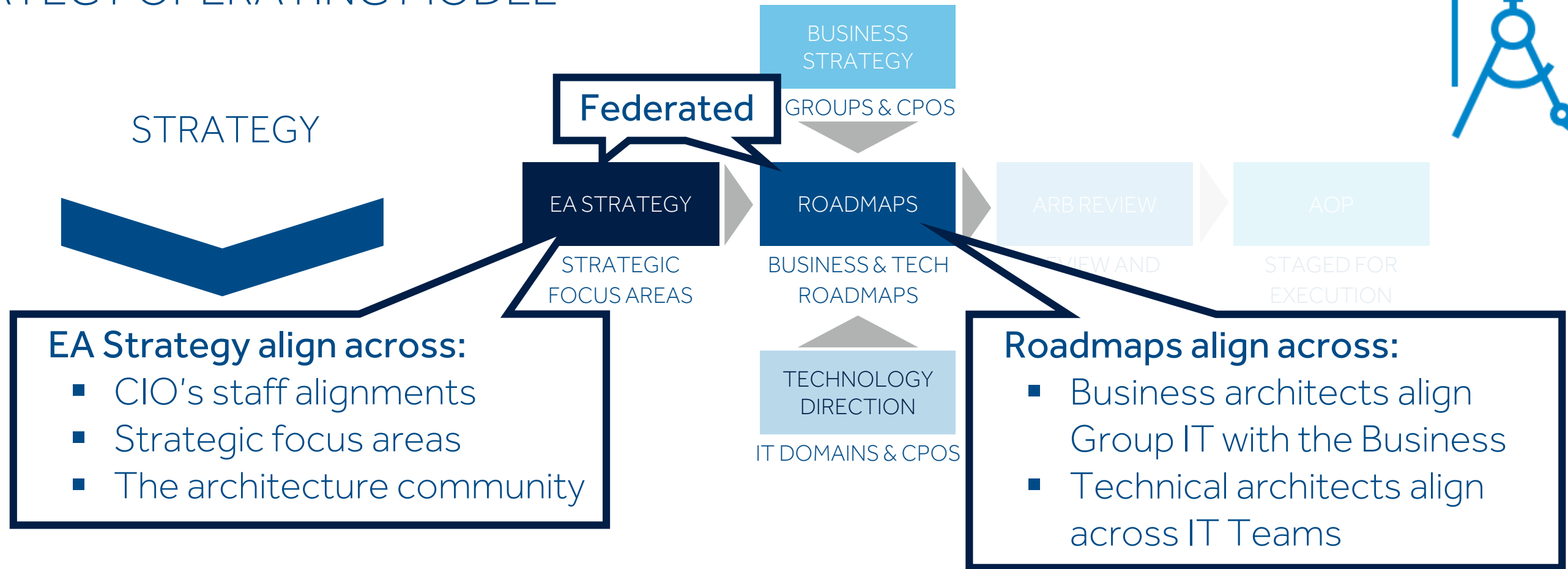
DELIVERY



BY THE COMMUNITY



ENTERPRISE ARCHITECTURE STRATEGY OPERATING MODEL



Achieving our objective outcomes to:

Serve as a strategic partner

Promote technology strategy

Identify emerging technologies

Partner to set technology guidelines

Build understanding of the environment

ENTERPRISE ARCHITECTURE STRATEGY OPERATING MODEL



Achieving our objective outcomes to:



Partner to set
technology guidelines



Facilitate
technology governance

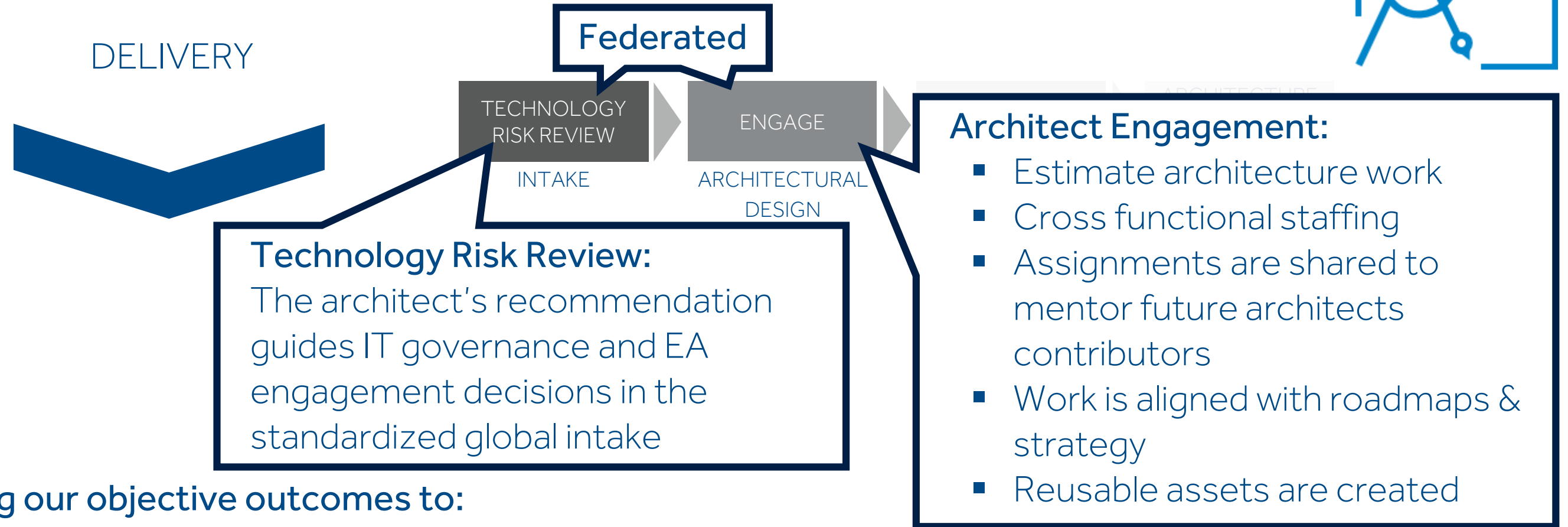


Provide a
technology forum

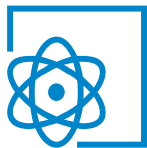


Build understanding
of the environment

ENTERPRISE ARCHITECTURE DELIVERY OPERATING MODEL



Achieving our objective outcomes to:



Identify emerging technologies



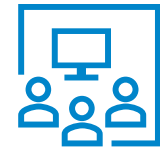
Partner to set technology guidelines



Facilitate technology governance

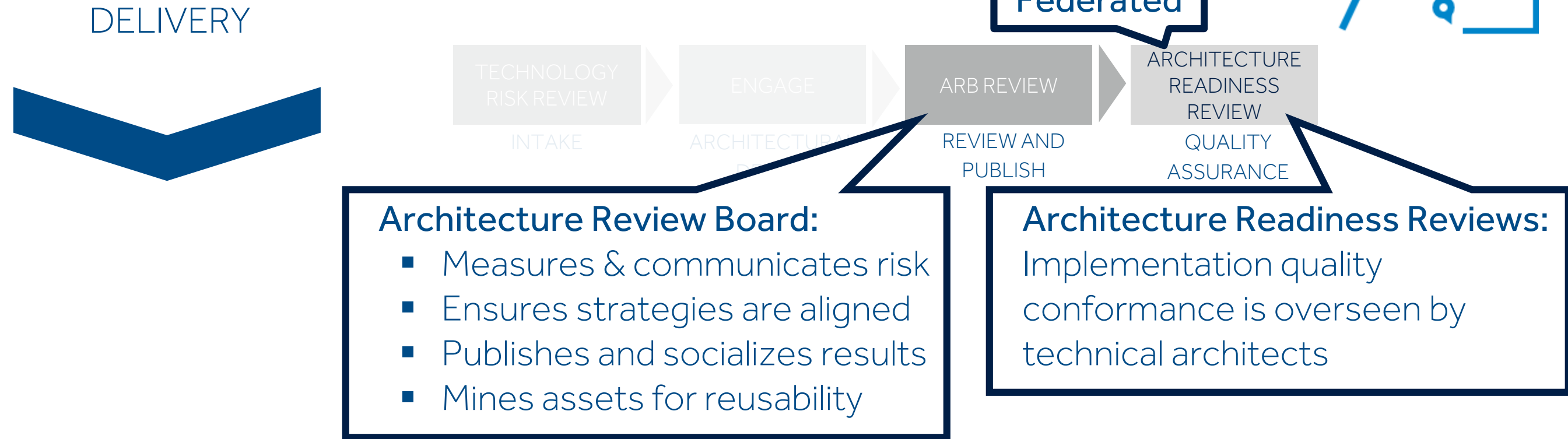


Provide a technology forum



Build understanding of the environment

ENTERPRISE ARCHITECTURE DELIVERY OPERATING MODEL



Achieving our objective outcomes to:



Partner to set technology guidelines



Facilitate technology governance



Provide a technology forum

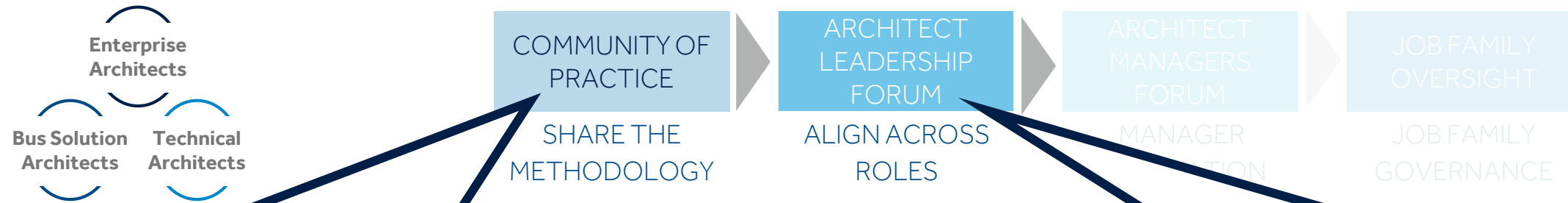


Build understanding of the environment

ENTERPRISE ARCHITECTURE COMMUNITY OPERATING MODEL



BY THE COMMUNITY



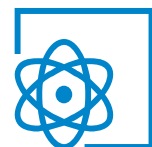
Community of Practice:
Methodology and best practices is shared across the architecture community to develop current and future architects

Architect Leadership Forum:
Business and Technical architects collaborate on common practice priorities and deliverables

Achieving our objective outcomes to:



Promote technology strategy



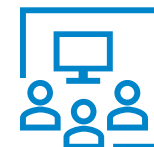
Identify emerging technologies



Partner to set technology guidelines



Provide a technology forum

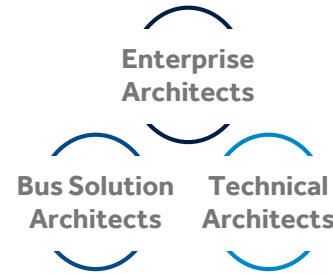


Build understanding of the environment

ENTERPRISE ARCHITECTURE COMMUNITY OPERATING MODEL



BY THE COMMUNITY



Architect Manager's Forum:
Managers of federated architects assemble to discuss the needs, opportunities and operational focus for the roles

ARCHITECT MANAGERS FORUM
MANAGER CALIBRATION

JOB FAMILY OVERSIGHT
JOB FAMILY GOVERNANCE

Architect Job Family Oversight Committee:
Sponsoring IT leadership governs the use of the architect job title and reviews manager nominations for resources to join the job family

Achieving our objective outcomes to:



Serve as a strategic partner



Promote technology strategy



Provide a technology forum

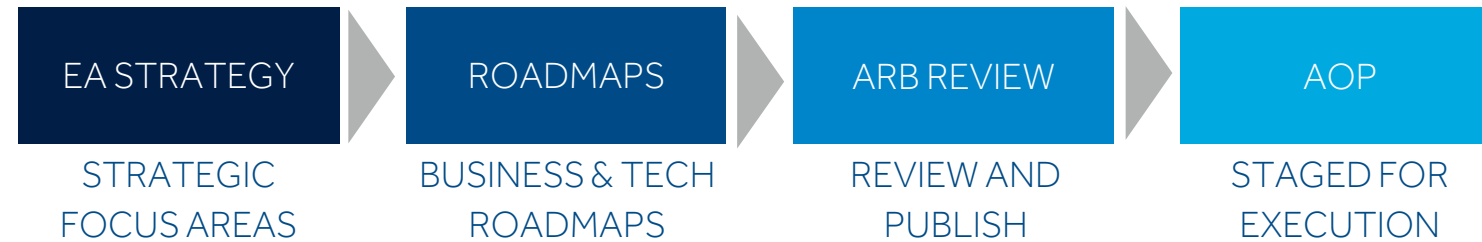


Build understanding of the environment

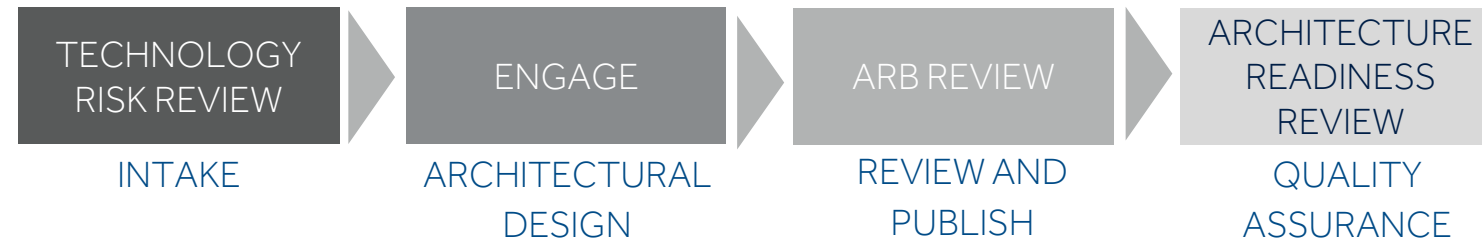
ENTERPRISE ARCHITECTURE OPERATING MODEL



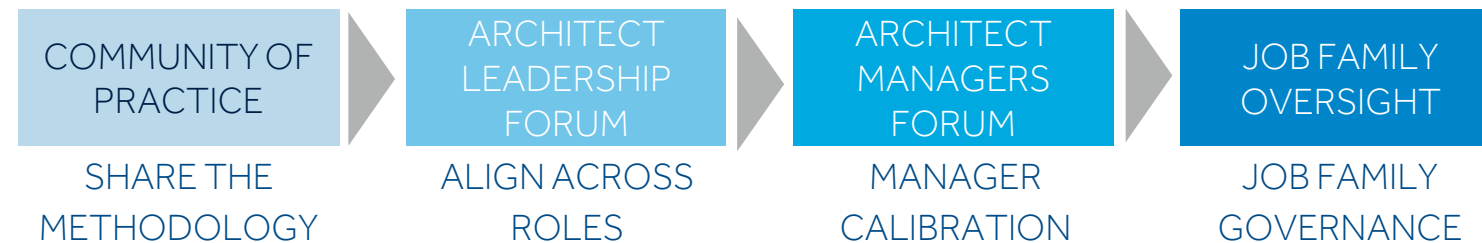
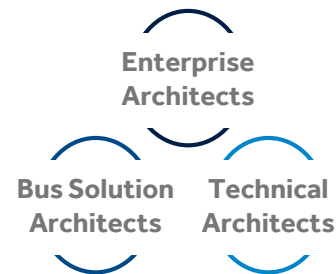
STRATEGY



DELIVERY



BY THE COMMUNITY



FEDERATED ARCHITECTURE OUTCOMES

ENTERPRISE ARCHITECTURE

SHAPING STRATEGY, OUTCOMES & SOLUTIONS

WHAT OUTCOMES ARE WE SEEKING?

FEDERATION ENABLES COLLABORATION & STANDARDIZATION

When architecture is sourced across distributed teams with common practices:



Local architects (outside of EA) define the roadmap, assess the pipeline, define their solutions and measure their quality.



Collaboration across architects creates balanced solutions across business needs (Business Architects), IT domain needs (Technical Architects), and technology strategies (Enterprise Architects).



A network of broad technical leaders with mastery of their areas increases collaboration and knowledge sharing across Global IT.



Global architecture practices create consistent and standardized work that is locally designed.

Localized architecture

Balanced solutions

Increased collaboration

Standardized work

WHAT OUTCOMES ARE WE SEEKING?

FEDERATION ENABLES LOCALIZATION & RELEVANCE

When distributed teams localize their common practices:

Theory is
Grounded



Federated architects select the architecture offerings that are the most relevant to the needs of their leadership teams.

A Small
Ivory Tower



Enterprise Architecture governance can be reduced to scopes which span the CIO's staff with distributed review when efforts are contained within their domains.

Tailoring and
Improving



The federated architects leverage practice methodology while improving them through their usage, contributing assets to the practices.

A Global
Technical Hotline



The network of architects across the globe creates a technical hotline of expertise, bridging awareness to opportunities to partner and/or reuse

CIO: WE ARE HERE TO MAKE YOUR TEAM SUCCESSFUL!

DELIVERING OUTSTANDING RESULTS WHILE DEVELOPING YOUR PEOPLE

We are here to support your business customers as an architecture community on behalf of your team



DISCUSSION

MEDTRONIC OVERVIEW

Who are we?
What do we do?
How do we do it?

THE ARCHITECTURE VALUE PROPOSITION

What is the purpose?
How is it approached?
What are the services?

FEDERATING ARCHITECTURE

Why federate?
How is it structured?
What are the benefits?

DISCUSSION

What have you seen?
Where can we create insights?