

Business Process Modeling and the Case for BPM+ Health

What are workflows and care pathways?

- A **workflow** is a set of activities (e.g., process steps) that come together to support a business process
- Workflows are performed by humans, machines, or both
- Workflows can be very simple or extraordinarily complex
- Workflows are (generally) composable
- When expressed using precise, formal models, workflows can be executed as software
- Healthcare has several notions of repeatable-processes that influence “good” care delivery
- **Care Pathways** define processes that should be followed to administer care
- Professional organizations (and others) publish best-practices as **Clinical Practice Guidelines (CPGs)**
- There are no broadly accepted universal definitions for healthcare workflows, care processes, pathways, or Clinical practice Guidelines

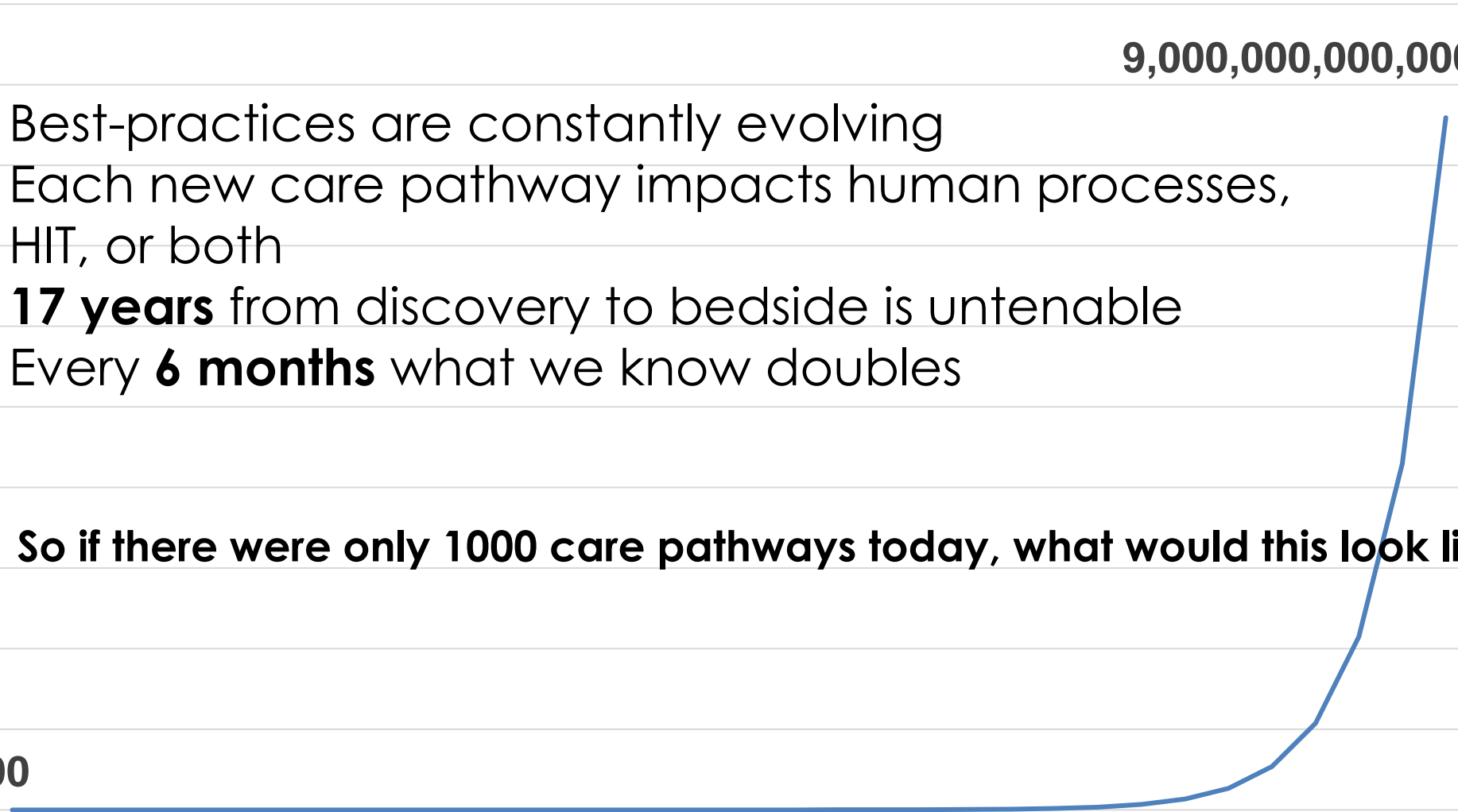
Without Changes, Keeping Pace in Untenable

9,000,000,000,000

- Best-practices are constantly evolving
- Each new care pathway impacts human processes, HIT, or both
- **17 years** from discovery to bedside is untenable
- Every **6 months** what we know doubles

So if there were only 1000 care pathways today, what would this look like....

1,000



So what is BPM+ Health?

	Yes	No
Based on open standards	✓	
A product offering		x
Vendor, product, and organization neutral	✓	
Requires membership to participate		x
Produces models and care pathways		x
Promotes BPM use, implementation, best-practice	✓	
Certifies, curates, manages, licenses BPM models		x
Free tooling and sandboxes for community work	✓*	
Supported by COTS offerings	✓	
Owens, manages, or licenses intellectual property		x

(Excepting exemplars;
reference implementations)

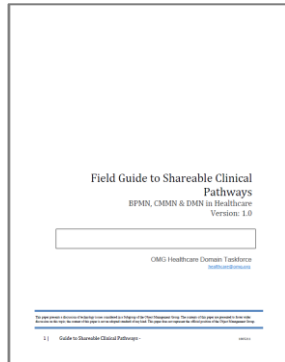
* Members only benefit



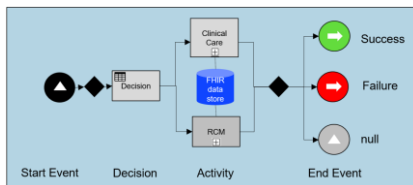
About the BPM+ Health Community



- Officially launched in September 2019
- Not-for-Profit non-SDO
- Membership-based, open community
- Calls are open
- Actively collaborating with others, including HL7



- Work products are open and available without cost
- No usage restrictions or limitations
- Focus on advancing the discipline; best-practices



- Complementing several industry efforts (FHIR, CPGs, CDS, ...)
- Focus on process, modeling, and process interoperability
- NOT a curator or clearing house

Active BPM+ workgroups

Authoring	<ul style="list-style-type: none">• Focus on writing/distributing content• Healthcare practice patterns
Organizational Adoption & Change Management	<ul style="list-style-type: none">• Bringing pathways into institutional use• Intersect between pathways, HIT, and human resources
Process Automation and Enablement	<ul style="list-style-type: none">• Approaches for IT implementation (tooling and execution)• Ingesting and using externally sourced pathways
Methodology	<ul style="list-style-type: none">• Maintain expression formalisms• Develop/maintain authoritative guidance; feedback to SDOs
Academic and Professional Education	<ul style="list-style-type: none">• Develop curriculum for accreditation• Workforce development
Policy Committee	<ul style="list-style-type: none">• Policy implications• Outreach
Tooling	<ul style="list-style-type: none">• Tooling solutions• Empowering our community

READ THE FIELD GUIDE FOR SHAREABLE CLINICAL PATHWAYS

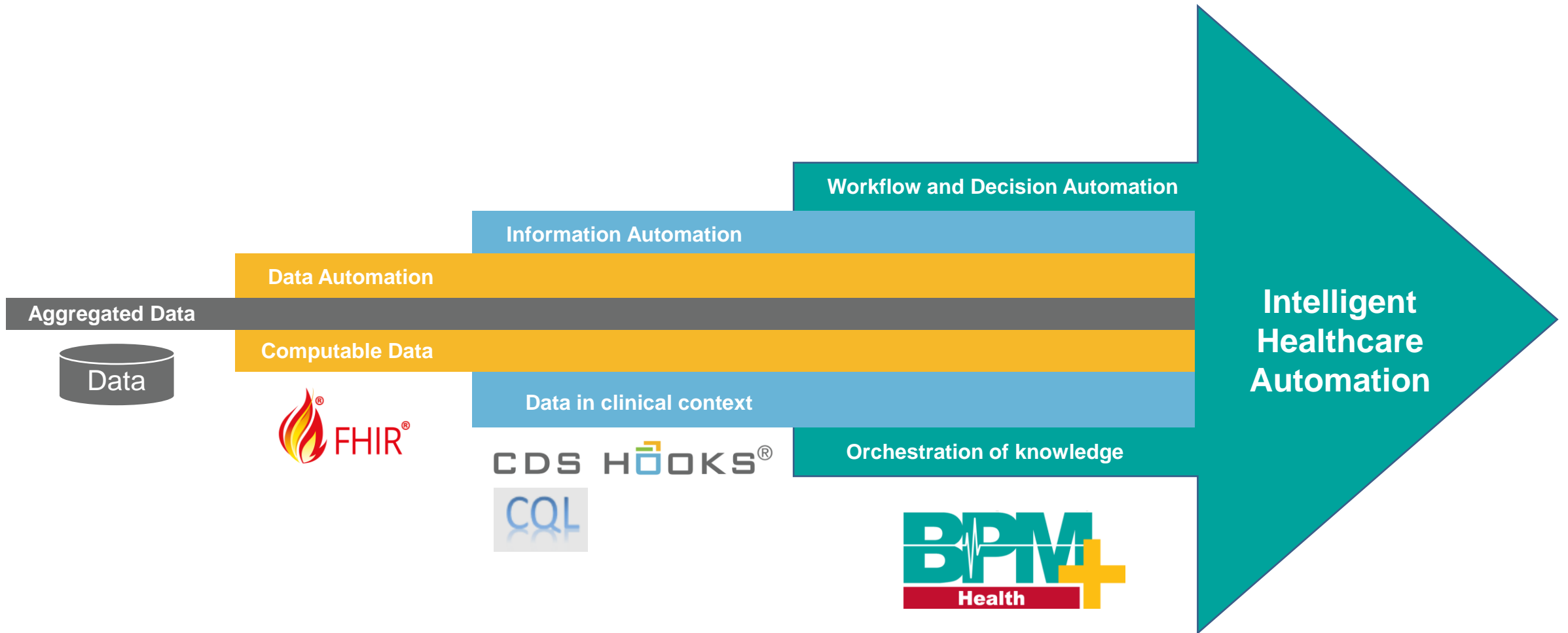
Field Guide

Access the community's seminal publication, Field Guide for Shareable Clinical Pathways.

The guide applies three Object Management Group® (OMG®) business process standards to represent clinical pathways that define distinct aspects of care workflow and decision-making, including:

- Business Process Model and Notation™ (BPMN™)
- Case Management Model and Notation™ (CMMN™)
- Decision Model and Notation™ (DMN™)

Intelligent healthcare automation



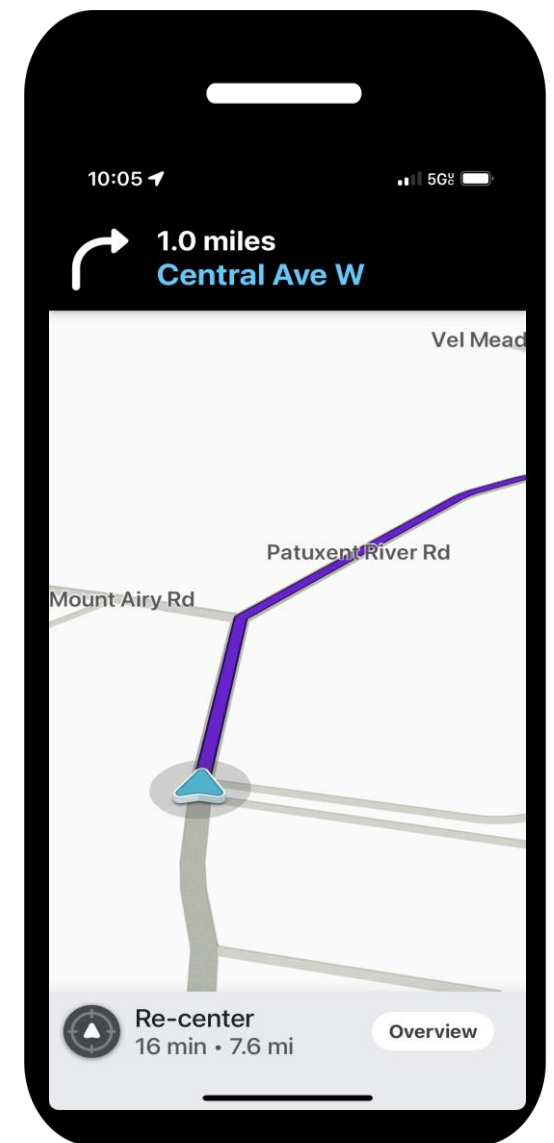
#ChooseOpenStandards

An Analogue from Daily Life...

Waze!

There are tremendous similarities between GPS apps and healthcare workflow augmentation/automation:

- GPS provides recommendation but is not “self driving”
- User can determine high level preferences (e.g., avoid toll roads, prefer highways, etc.)
- Recommended routes informed by multiple (potentially unknown) data sources
- Updates to routing algorithm not inherently transparent
- Opportunities for AI to improve process (e.g., data source analytics)



Our Community



Join us

Why

It takes 17 years for best practices to move into clinical workflows

As a patient, provider or payer, is that fast enough for you? It isn't for the members of our growing community who realize the importance of standards across the purchased care lifecycle.

What

Standards committed Community of Practice

An OMG sponsored, open ecosystem devoted to improving global health by accelerating best clinical practices in an agile fashion, into healthcare actors workflows using data, knowledge and process standards.

Who

Professional societies, payers, providers vendors, healthcare & government agencies

Promote standards to share, adopt and allow patient centric pathway bundles which operate across traditional health IT boundaries along the patients pathways.

Goal

Enabling & accelerating learning health systems

For all healthcare actors.

An OMG Managed Community



Thank you!

Our Family

Cooperative Competition Drives Innovation and Markets



Standards

Digital
Transformation

Software
Quality
Standards

Digital Twin

An OMG Managed Community

