BPM and Standards

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A Story from My Hometown

- Great Baltimore Fire of 1904
- Response from Philadelphia, Washington, New York, Virginia, Atlantic City… hundreds of firefighters
- Burned two days, 60 hectares

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Standards Are Important

- Sometimes they have life-or-death consequences
- Successful standards start, maintain and build ecosystems & businesses
- Standards are product differentiators:
  - Marks of quality
  - Expertise (certification, validation)
  - Interoperability, Portability & Reuse

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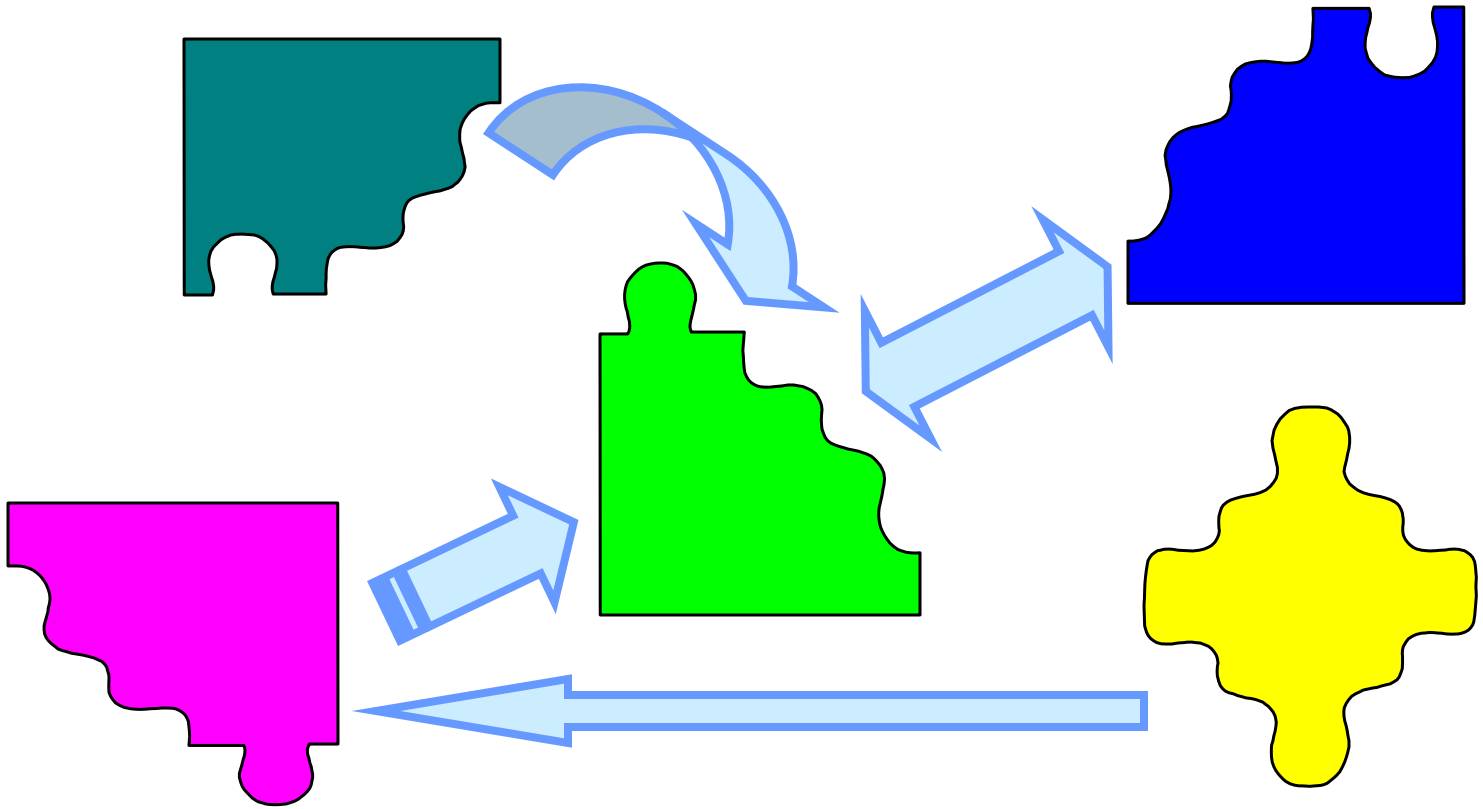
The integration picture is always changing



Executive decisions, mergers & acquisitions have a way of surprising us…

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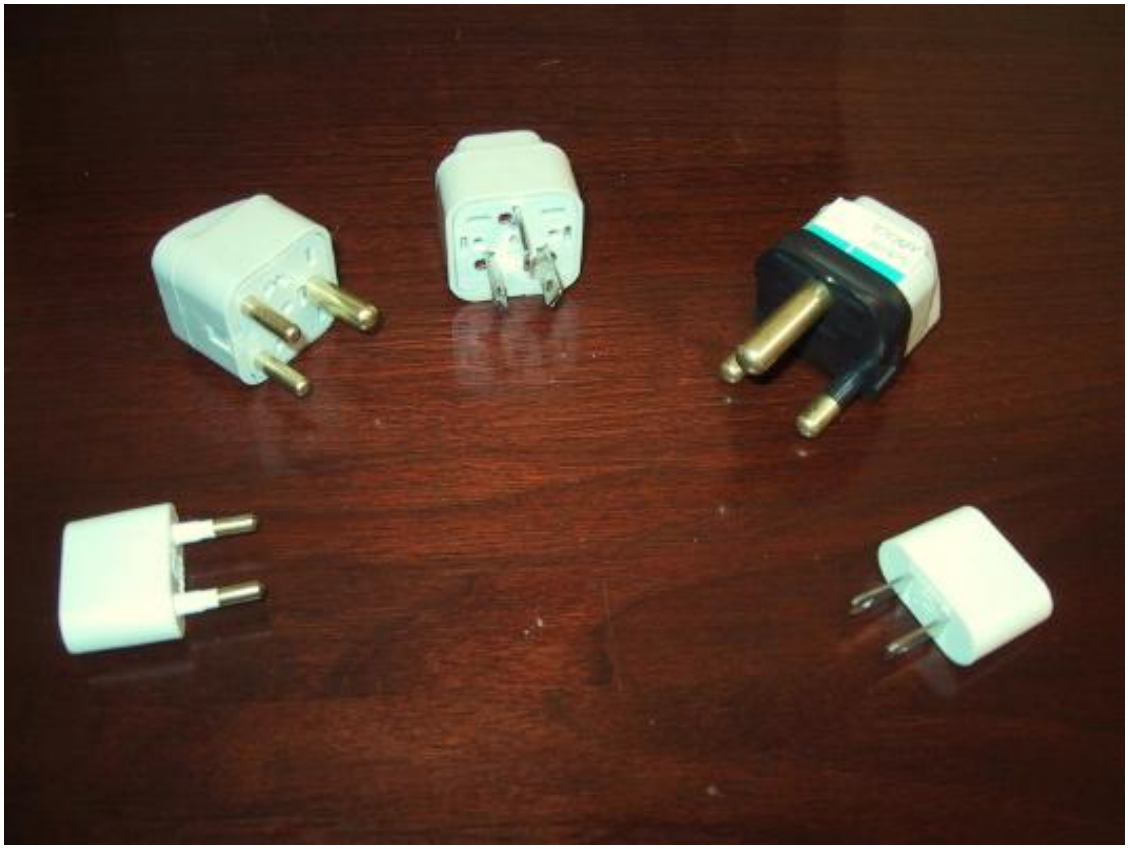
Bringing Down Cost of Adaptation



OMG's Mission Since 1989

- Develop an architecture, using appropriate technology, for modeling & distributed application integration, guaranteeing:
  - reusability of components
  - interoperability & portability
  - basis in commercially available software
- Specifications *freely available*
- Implementations exist
- Member-controlled not-for-profit

Who Are OMG?

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- Adaptive
- Atego
- Boeing
- BP Trends
- CA Technologies
- Citigroup
- Cognizant
- CSC
- EADS
- Energistics
- FICO
- Firestar Software
- Fujitsu
- Harris
- Hewlett Packard
- Hitachi
- Honda
- IBM
- Lockheed Martin
- Mentor Graphics
- Microsoft
- MITRE
- National Archives
- NEC
- NIST
- No Magic
- Nokia
- NTT DoCoMo
- Northrop Grumman
- OASIS
- Oracle
- PrismTech
- SAP
- Soluta.net
- TCS
- Tether's End
- THALES
- The Open Group
- Unisys
- W3C

Shared Languages are Important

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- The Unified Modeling Language is the successor to the dozens of OO A&D notations of the early ’90s
- UML is broadly adopted, as are other key OMG modeling languages: ***BPMN***, SysML, CWM, MOF, XMI
- Initial UML 1.x standardized in 1997
- Vendor-neutral worldwide certification easily available
- Standardization primed the market
  - Hundreds of books
  - Dozens of commercial tools
  - Widely available training
- Supported by an open process
  - UML 2.0 updates came from 54 companies
  - New UML 2.5 simplifies structure and makes room for the future

UML Certification Program (OCUP)

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OMG

Endorsed!

- OMG/UTI UML Certification Program
  - Started November 2003
  - Worldwide (English & Japanese)
  - Books available in English, Japanese & German
  - Three levels of accomplishment
  - Focused on UML 2.0
- Other certifications available:
  - Realtime/embedded modeling
  - Business Process Modeling
  - Systems Engineering (2010)

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BPM Certification

- OMG-Certified Expert in BPM (OCEB) is available in English and Japanese
- Enables organizations to find & qualify expertise
- Enables individuals to show what they know

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OMG Business Modeling Activity

- Semantics of Business Vocabulary and Rules
  - Consistent rules at the business level
- Business Motivation Metamodel
  - Capturing business focus at the strategy level
- Business Process Modeling Notation
  - World standard for process description
- Business Process Definition Metamodel
  - Connecting BPMN to metamodeling frameworks
- Production Rule Representation
  - Low level rule descriptions
- Business Process Maturity Model
  - Consistent five-level metric for organizational maturity

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BPMN: A Core Example

- BPMN was designed to bridge the gap between business process design and process implementation
  - To support both abstract and executable processes: not just automation
- BPMN is supported by more than 40 vendors
  - Process engines support BPMN natively
  - Tools map BPMN to BPEL and other execution languages
  - Also in use by BPM practitioners in the end user community

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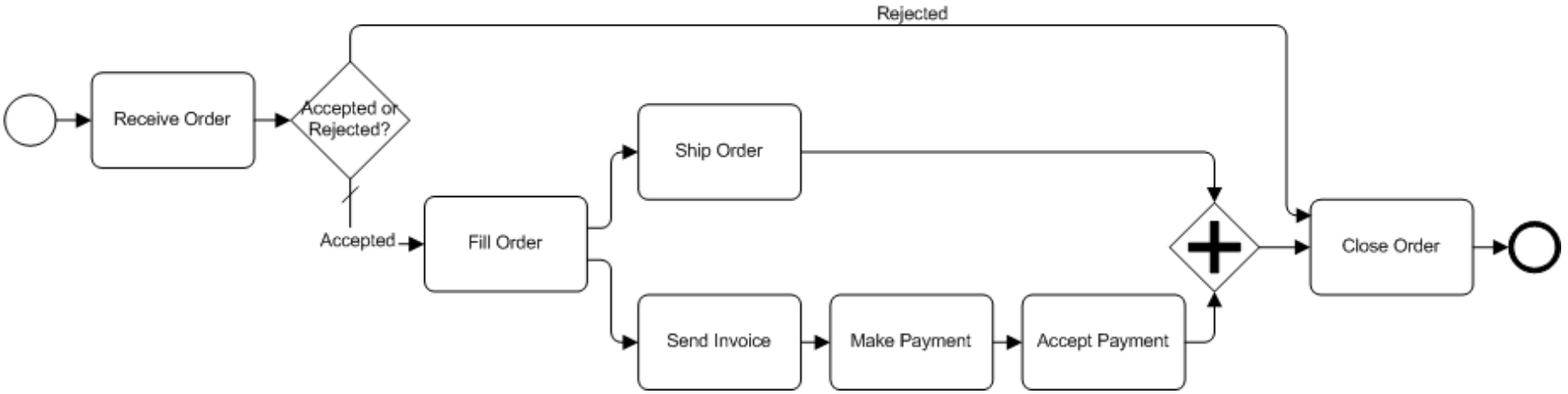
Status of the Standard

- BPMN 1.0 originally released by BPMI in May, 2004
- Fast-tracked by OMG, adopted in only 90 days after merger
- BPMN 2.0 adopted by wide user/vendor base in September, 2009
- Specification & information at http://www.bpmn.org/
- Five things to love: http://www.brsilver.com/2009/03/26/5-things-to-love-about-bpmn-20/
- One thing to adore: model interchange



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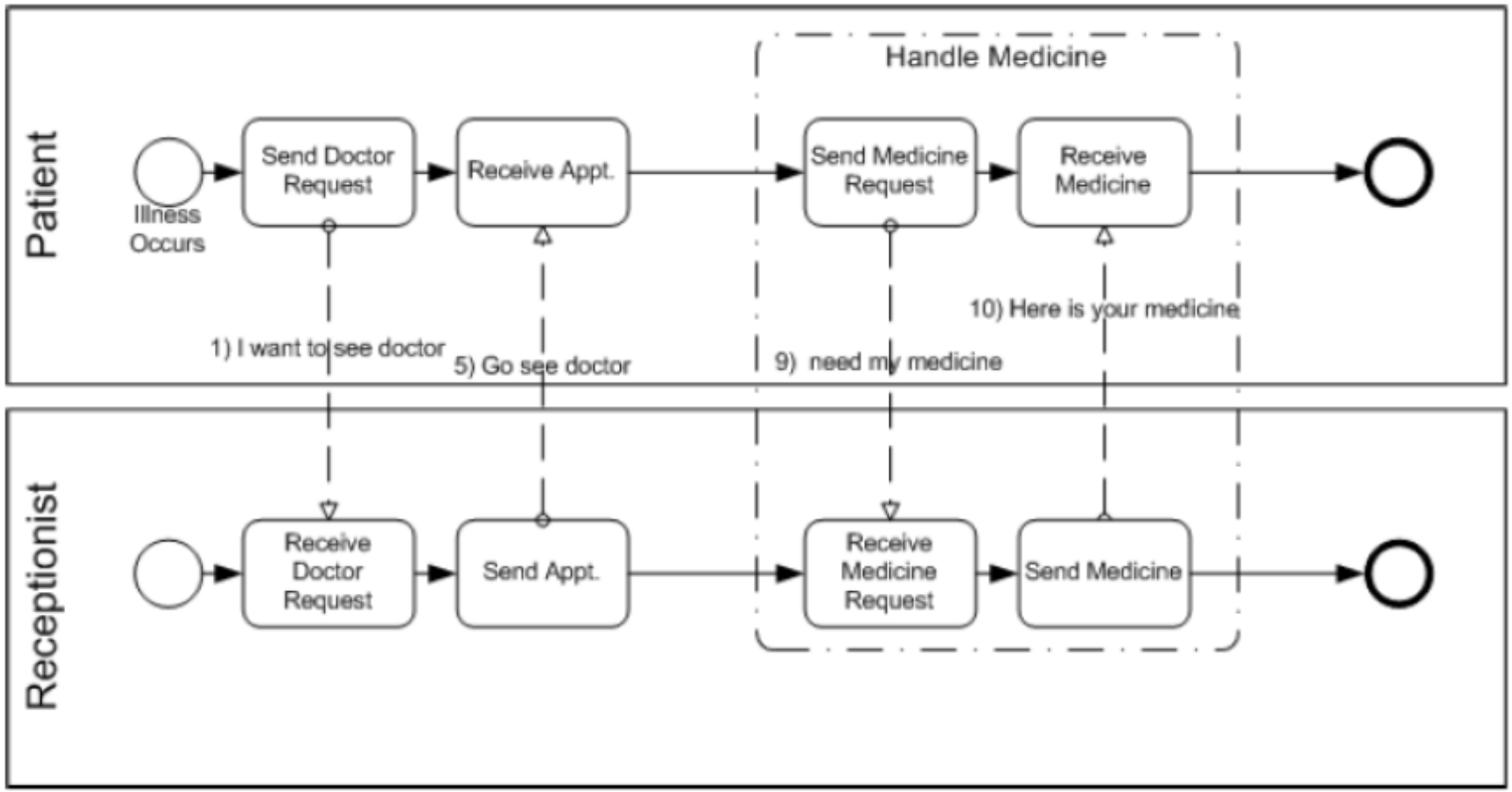
Simple & Straightforward



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Gartner on BPM

- Gartner 2009 worldwide CIO survey: top three CIO priorities are
  - Business process improvement
  - Reducing enterprise costs
  - Improving enterprise workplace effectiveness

- “By 2013, graphical models of processes, data, services, user experiences and workflow will be used in more than 80% of new compositions.”
- “Big Breakthrough: Model-Driven Business”

Janelle Hill, Gartner (February 2009)

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Future of the IT Department

- The successful 21st century organization will no longer have an « IT » department
- IT's success means moving from « partnership » and « alignment » to *an integral part of the business organization*
- Our role: *recognizing, precisely defining, capturing, storing, reusing and* ***optimizing*** *business processes*
- Optimization is a precursor to ***innovation***

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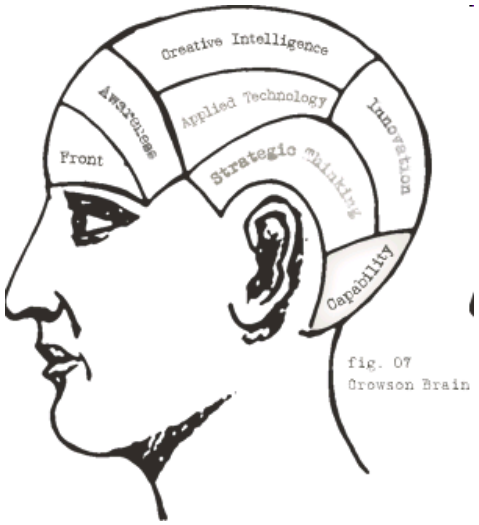
Who Knows?

- Most divisions only know their own sales, development, operations
- Because IT automates processes throughout the enterprise, IT knows the enterprise
- Most importantly, IT implements *business processes* that support *business capabilities*



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Optimizing the Enterprise

- Precise descriptions of business processes are a prerequisite to *understanding* those processes.
- IT understands business process optimization: streamlining processes, leaning processes, greening processes
- Digital ecosystems require representations of digital business models

OMG's Breadth of Standards

- Besides key modeling, distributed computing & realtime/embedded standards, OMG develops standards in

Healthcare	Financial Services	Telecommunications
Government	Military Logistics	Manufacturing
Robotics	Systems Engineering	Military Communications
Consumer Device Safety		Electric Grids

…Common Business Processes

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Action Plan

- Speak the language of the business, and focus on business capabilities
- Share experiences, both good and bad, with your peers in your vertical and others
- Leverage and participate in the definition of standards for your company, your market, your vertical, and across the industry
- Be the process improvement expert in the business
- Look for opportunities to optimize, not just automate
- *Optimize across your supply chain to find opportunities to innovate*

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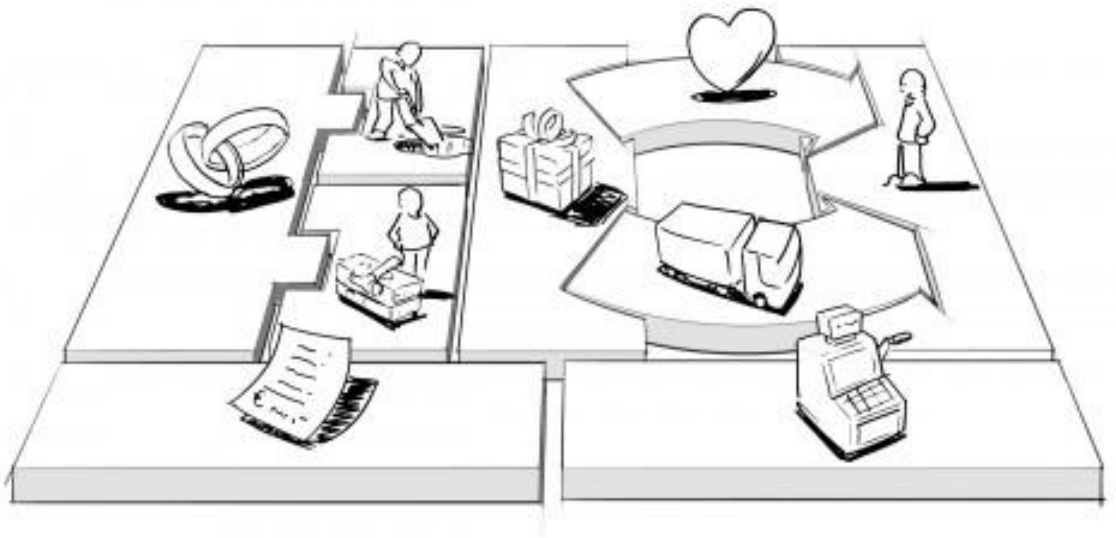
Contacts

- For more information
  - OMG: http://www.omg.org/
  - Richard Soley: soley@omg.org



- Now let's try modeling a business.