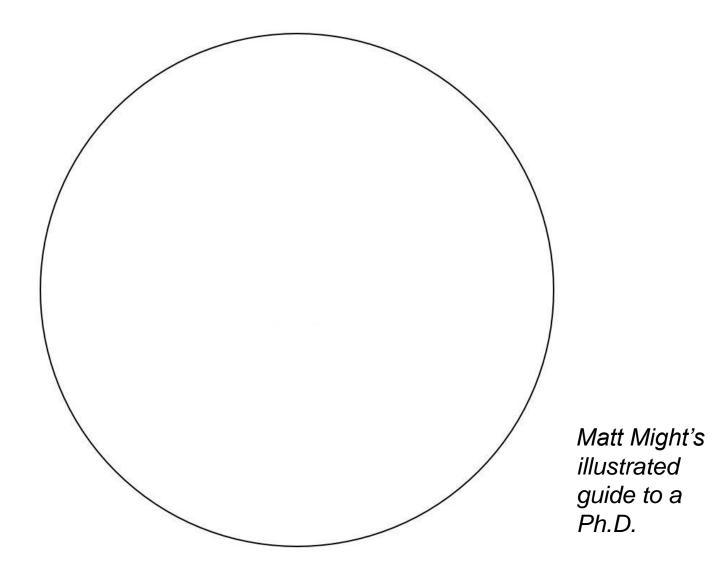




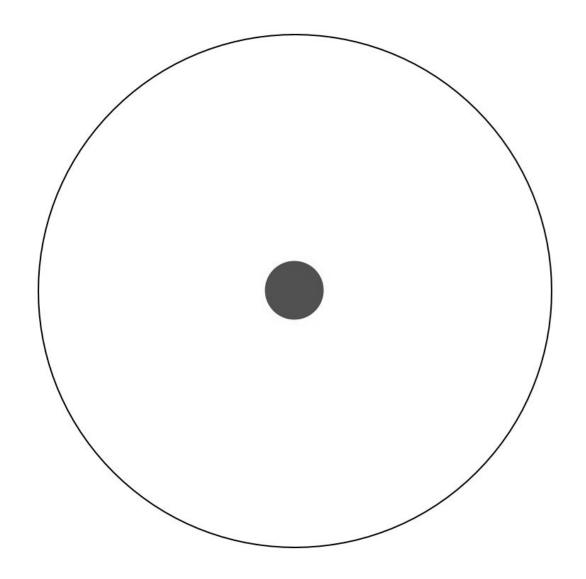
Mathias Weske



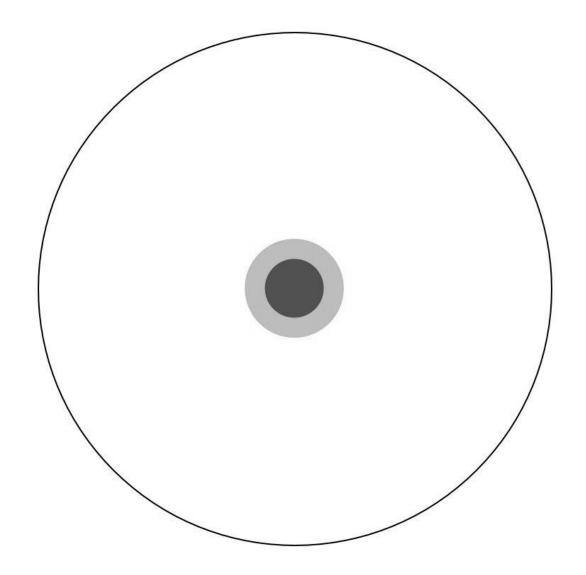
Let's start broad











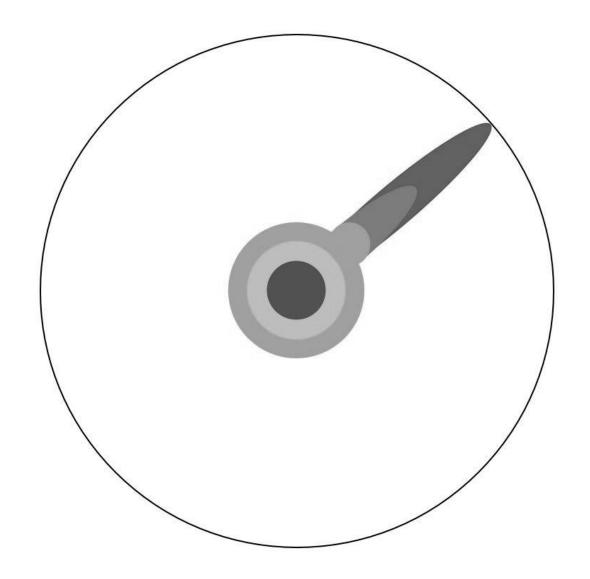




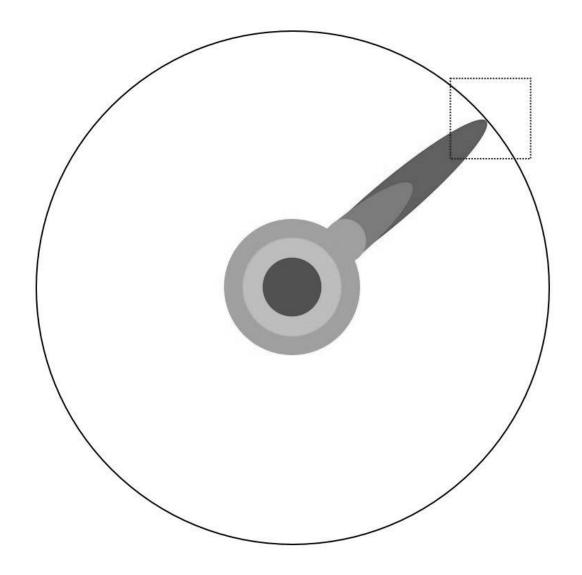




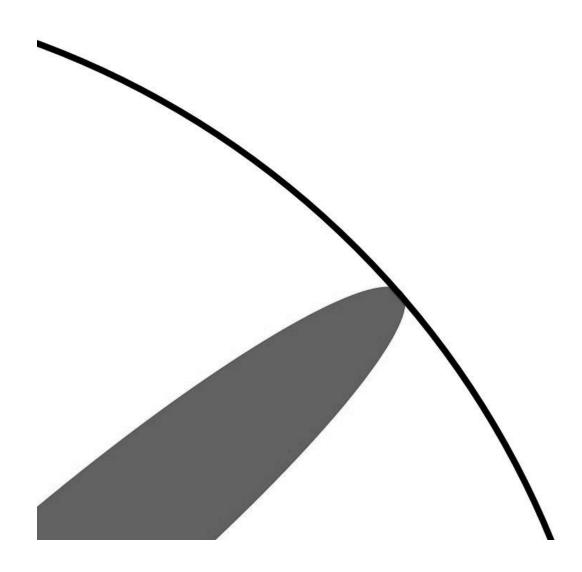




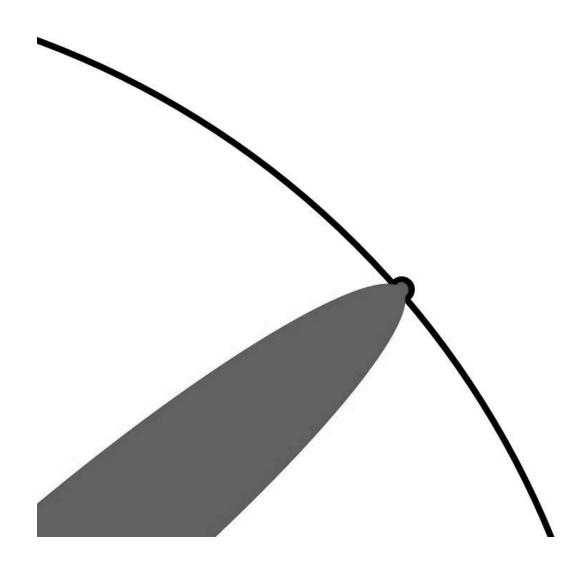




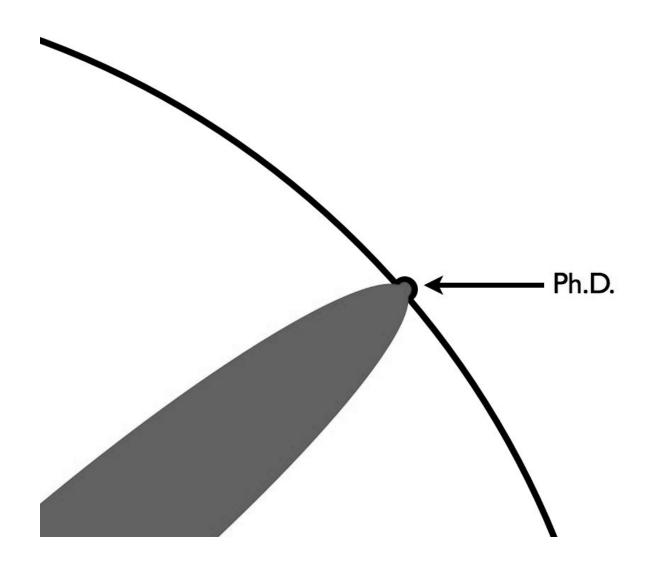












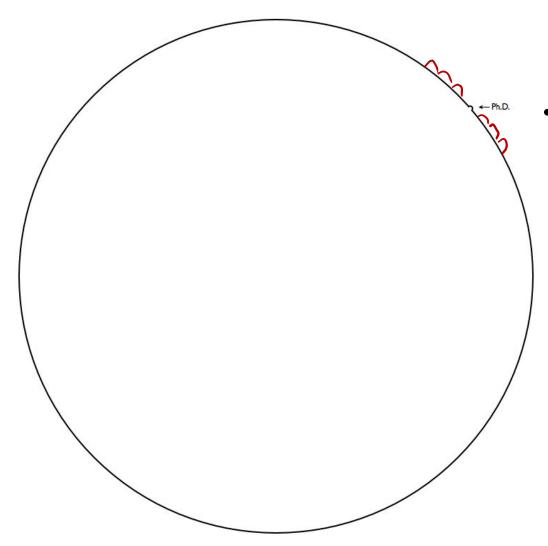


Your view





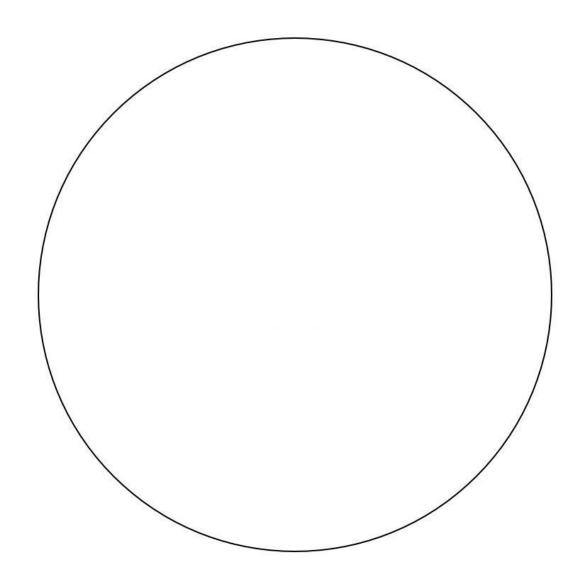
Zooming out



- Some Ph.D. Theses
 - interaction Petri nets
 - configurable process models
 - · conformance checking
 - process compliance
 - behavioral profiles
 - · runtime prediction.

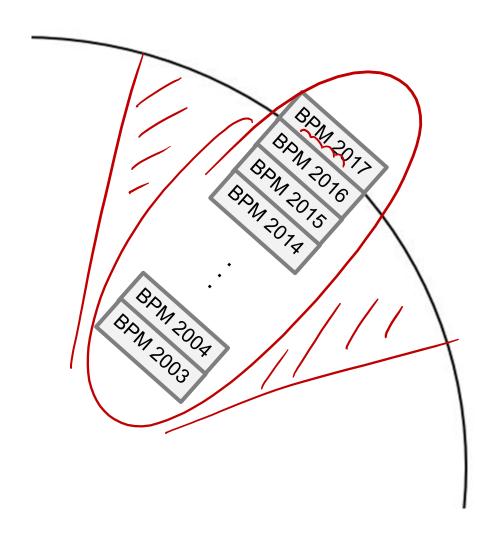


BPM 2003 – BPM 2017





BPM 2003 – BPM 2017





BPM Communities

Formal Architectures Soundhess literfaces Larguages Middlewar/ Properties

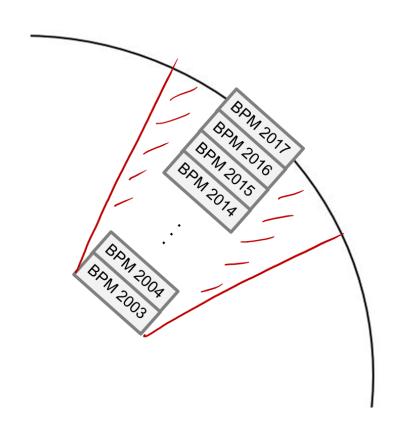
Business | Adm Models KPI Methods Policies Exterprise (ort. Architecture 14ho

[MW, Slide from 2006]



Observations

- Not all areas of BPM research are represented at BPM
 - Some colleagues find it very hard to enter

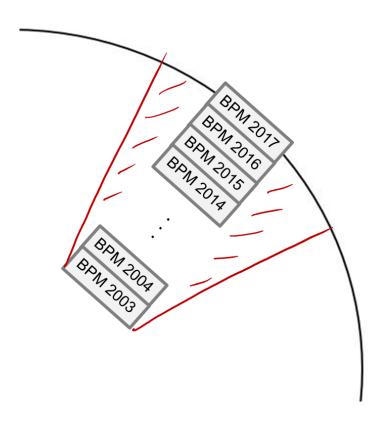




Observations

- Evaluation criteria have changed
 - BPM tends to ask for 16 page journal papers
 - Positioning in core BPM
 Out of scope, reject
 - Strong theoretical findings
 No technical contribution, reject
 - 3. Empirical evaluation

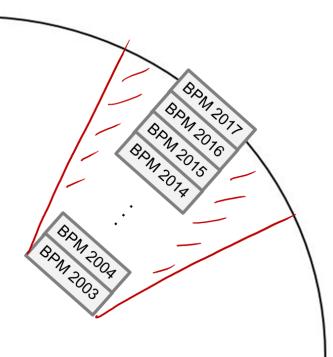
 No empirical evaluation, reject





Empirical Evaluation

- Is a cornerstone of good research
 - But it can kill innovation, if applied to all submissions
- Not our core competency
 - in writing
 - in reviewing
 - no ee, reject
 - ee, check.
 - "73% of my students would use my approach"
- Would the test-of-time award papers be accepted today?





Implications to BPM conferences

If we accept only papers with a strong empirical evaluation, we kill papers with novel ideas

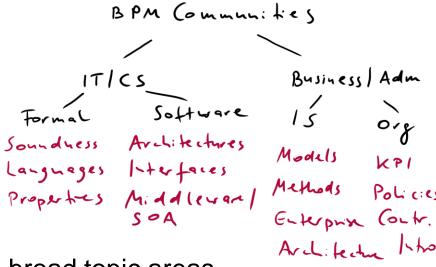
We need novelty, and we need to be broad

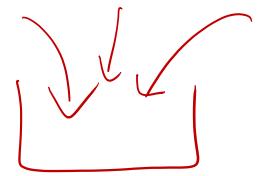
Not all BPM papers make it to a business environment
We have to be 5 years ahead of industry, not 5 weeks
Research is for creating knowledge, not revenue



This insight is not new ...

- Efforts to broaden BPM
 - PC chairs from different fields
 - Add PC members from the broader BPM area
 - Senior PC, to avoid the "that's not BPM" problem
 - Topic Champions with specific, broad topic areas





All papers were thrown into one bucket



... but the conclusion is new

- Increase the diversity of accepted papers
 - Some papers are in core BPM, some are in broader BPM
 - Some papers introduce new theoretical findings
 - Some improve a finding and show its value empirically
 - Some investigate the business value of a finding



- Papers need to be thrown into different buckets
 - Evaluation criteria, chairs, and program committees

Thanks to

 The members of the Steering Committee

 Many colleagues of the – broader – BPM community

Steering Committee



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How to cut the Cake?

- Along the BPM Lifecycle?
- Based on Research Methods!



- BPM 2018 Structure
 - Track I: Foundations (Track Chair: Marco Montali)
 - Track II: Engineering (Track Chair: Ingo Weber)
 - Track III: Management (Track Chair: Jan vom Brocke)
 - Consolidation Chair: Mathias Weske



Track I: Foundations

- Focus
 - Investigation of the principles underlying BPM systems
- You should send your paper to Track I if:
 - It advances the state of the art in BPM through the study and development of formal methods, algorithms, concepts, and architectures
 - It tackles conceptual modelling issues of BPM systems and their environment
 - It investigates novel concepts of BPM systems through the development of proof-of-concept implementations

Computer science perspective



Track II: Engineering

- Focus
 - Design of artefacts and their empirical evaluation in context

- You should send your paper to Track II if:
 - It has a significant technical contribution
 - Its results are empirically evaluated
 - It reports on a system that you designed, with a maturity of at least a prototype that can be evaluated in context

Information systems engineering perspective



Track III: Management

- Focus
 - Investigation of BPM methods and techniques and their contribution to business value

- You should send your paper to Track III if:
 - It addresses a solution to an organizational challenge
 - It draws from real-world organizational endeavors in BPM
 - It extends the BPM body of knowledge to better contribute to strategy delivery

Management perspective



Chimera Case Management

- Healthcare processes @ Charité
 - Unfold over time
 - Are driven by staff members
 - Contain structured parts
 - Contain flexible parts
 - Come in variants



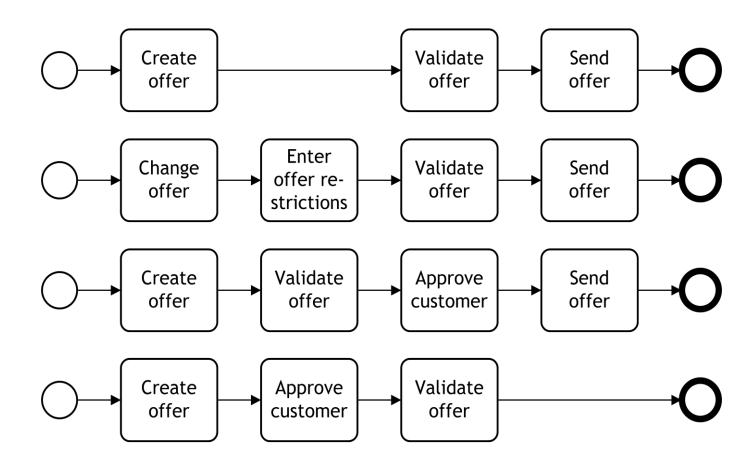
- Chimera: Fragment-based case management
 - Process fragments
 - Data classes and objects
 - Lifecycles



[Hewelt, Weske: BPM Forum 2016]

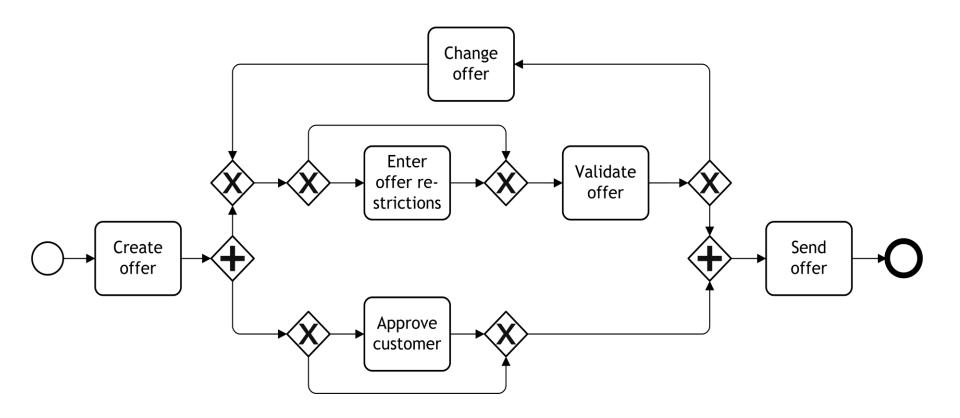


Many options available



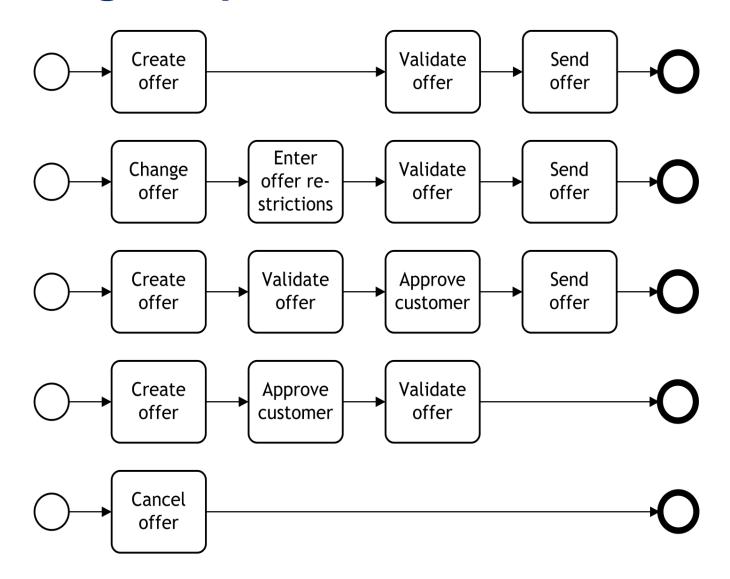


... combined to one process model



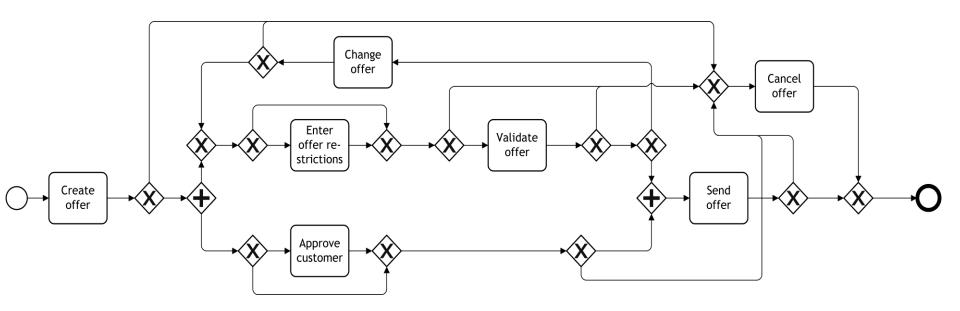


Adding an option ...



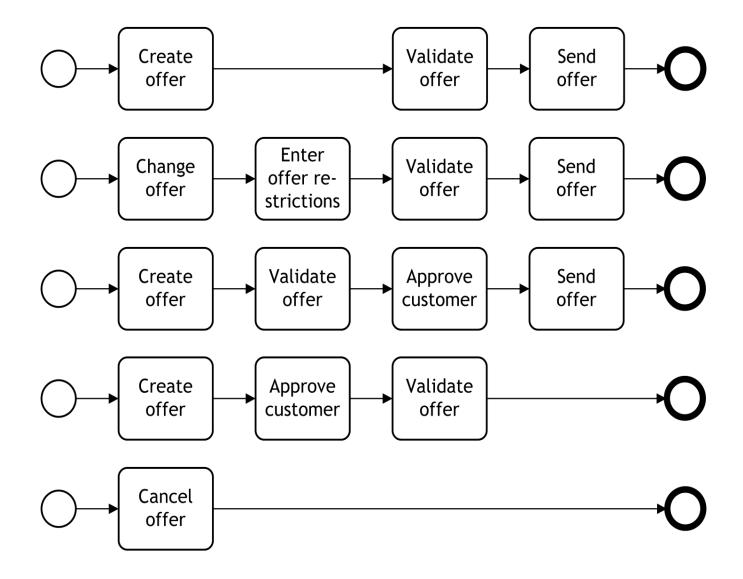


... increases model complexity





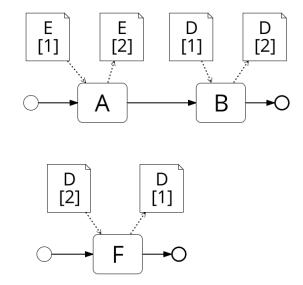
Key Idea of Chimera

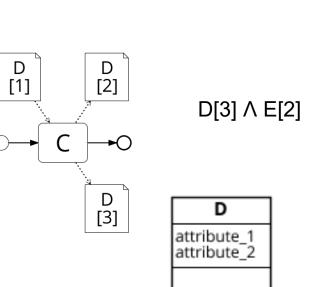


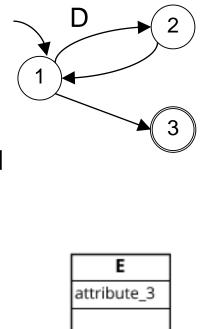


Chimera Approach

- Case model contains process fragments
 - Fragments are dynamically combined at runtime
- Case data represented by data objects
 - Attributes and object life cycles
- Cases have a termination condition



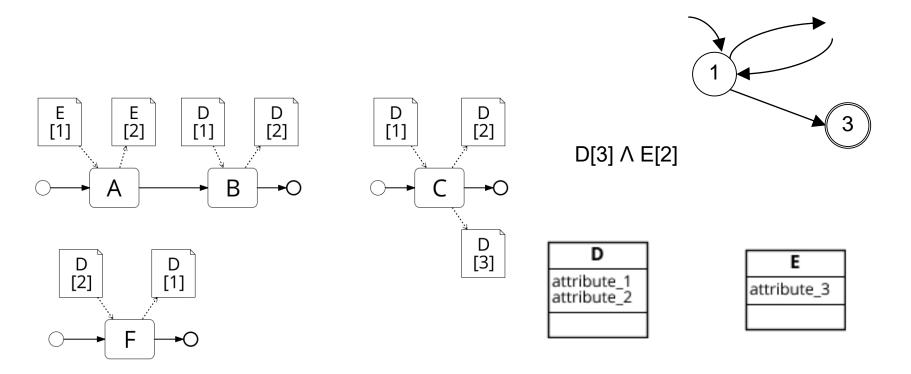






Chimera: Foundations

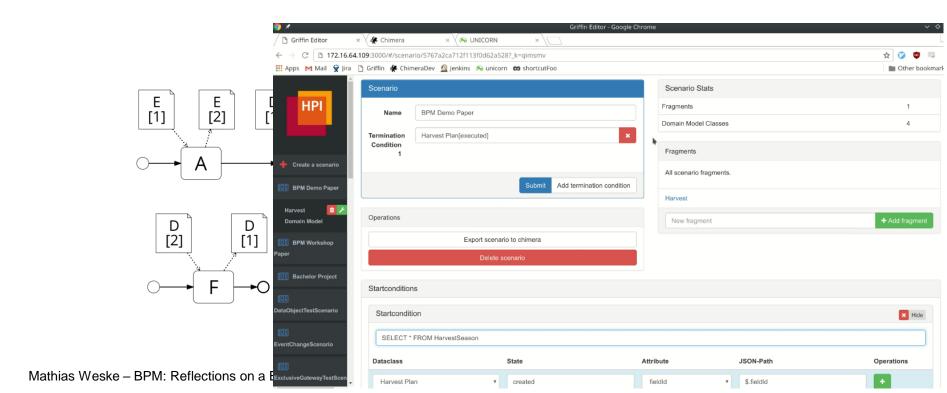
Concepts, semantics, formal analysis





Chimera: Engineering

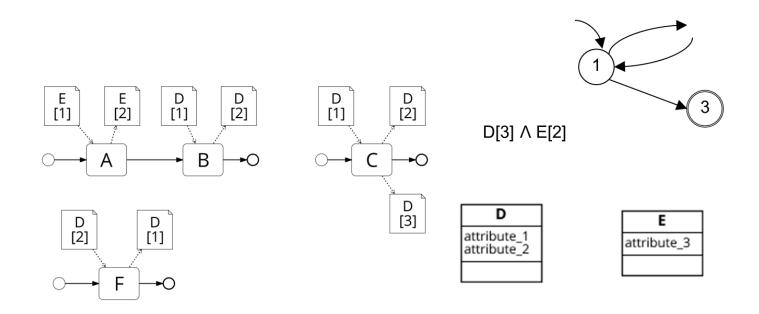
- Potential engineering topics
 - Analysis of change, maintenance effort
 - Investigation of process variant management
 - Understandability of case models and process models
 - Runtime evaluation of prototype in context





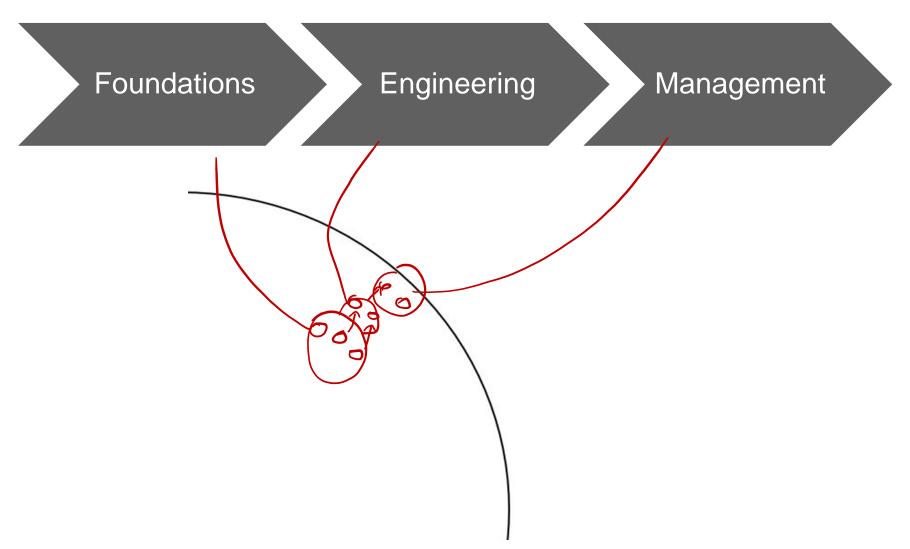
Chimera: Management

- Potential management topics
 - Which roles in the organization do we need to define, maintain, and execute process fragments?
 - How can an organization improve its agility with Chimera?
 - How can the approach be used to become more competitive?



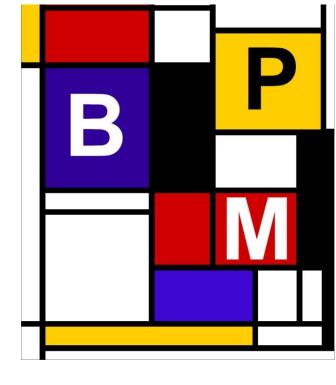


BPM Research Value Chain



Conclusions

- BPM is highly successful
 - Very well managed conference with a strong community
 - With risk of narrowing
 - Opportunity of broadening
- Track structure starting BPM 2018
 - Different buckets
 - Positive feedback
 - More continuity than it might look
- But
 - Not all questions are answered
 - We ask for your feedback and support









Mathias Weske