



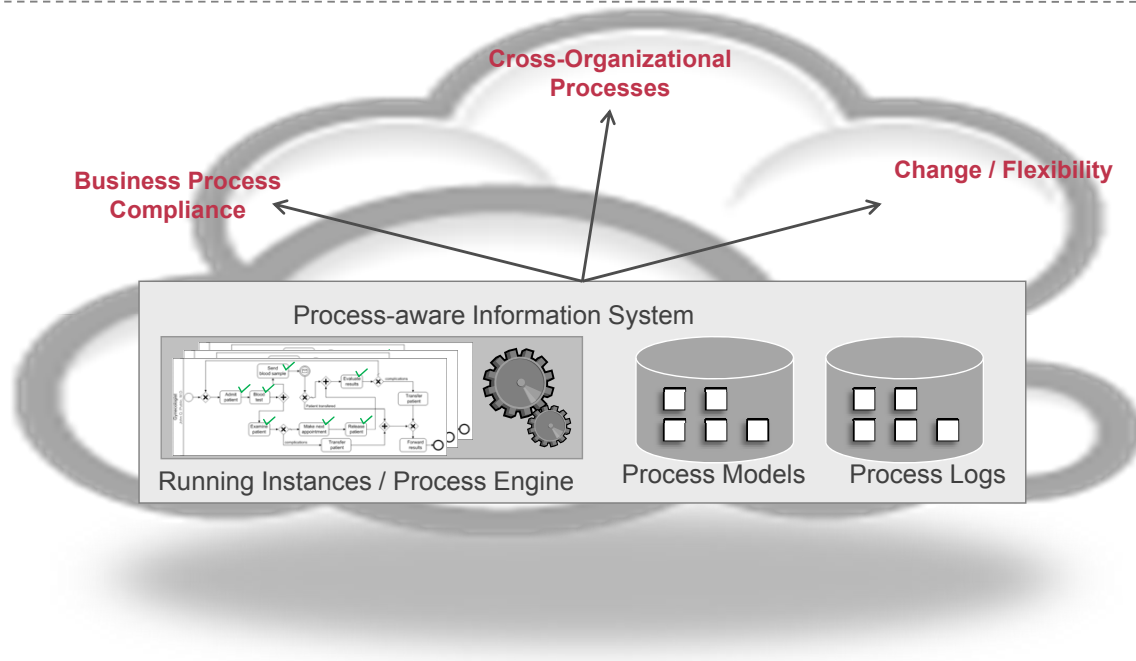
## Towards Compliance of Cross-Organizational Processes and their Changes

David Knuplesch<sup>1</sup>, Manfred Reichert<sup>1</sup>, Jürgen Mangler<sup>2</sup>,  
Stefanie Rinderle-Ma<sup>2</sup>, Walid Fdhila<sup>2</sup>

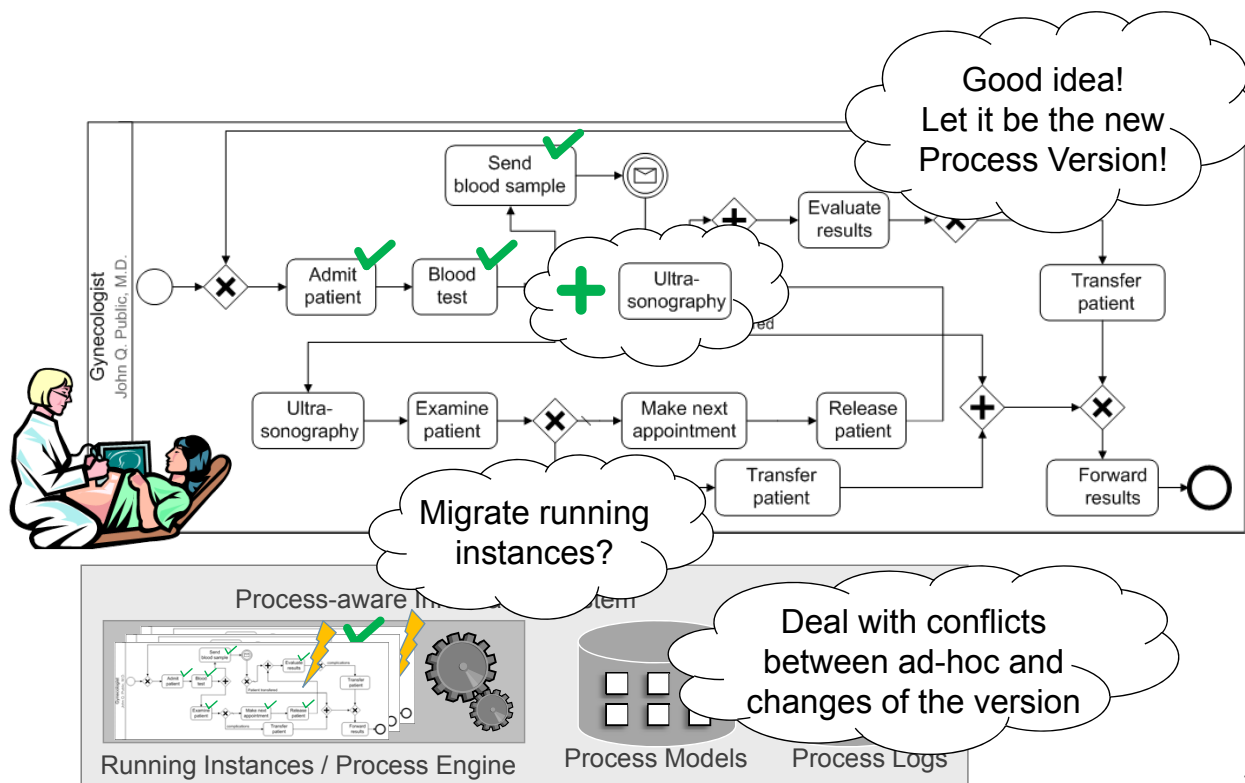
<sup>1</sup>Ulm University, Germany

<sup>2</sup>University of Vienna, Austria

### Motivation – Requirements

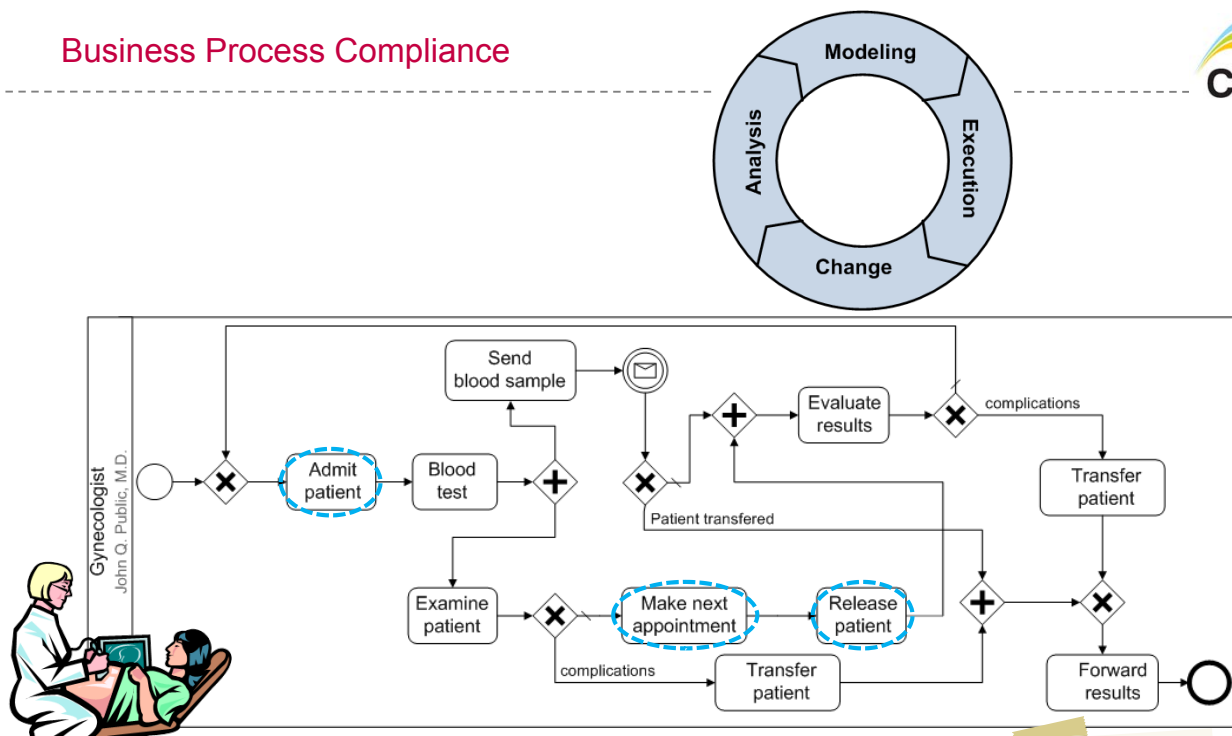


→ Combination raises new challenges.



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## Business Process Compliance

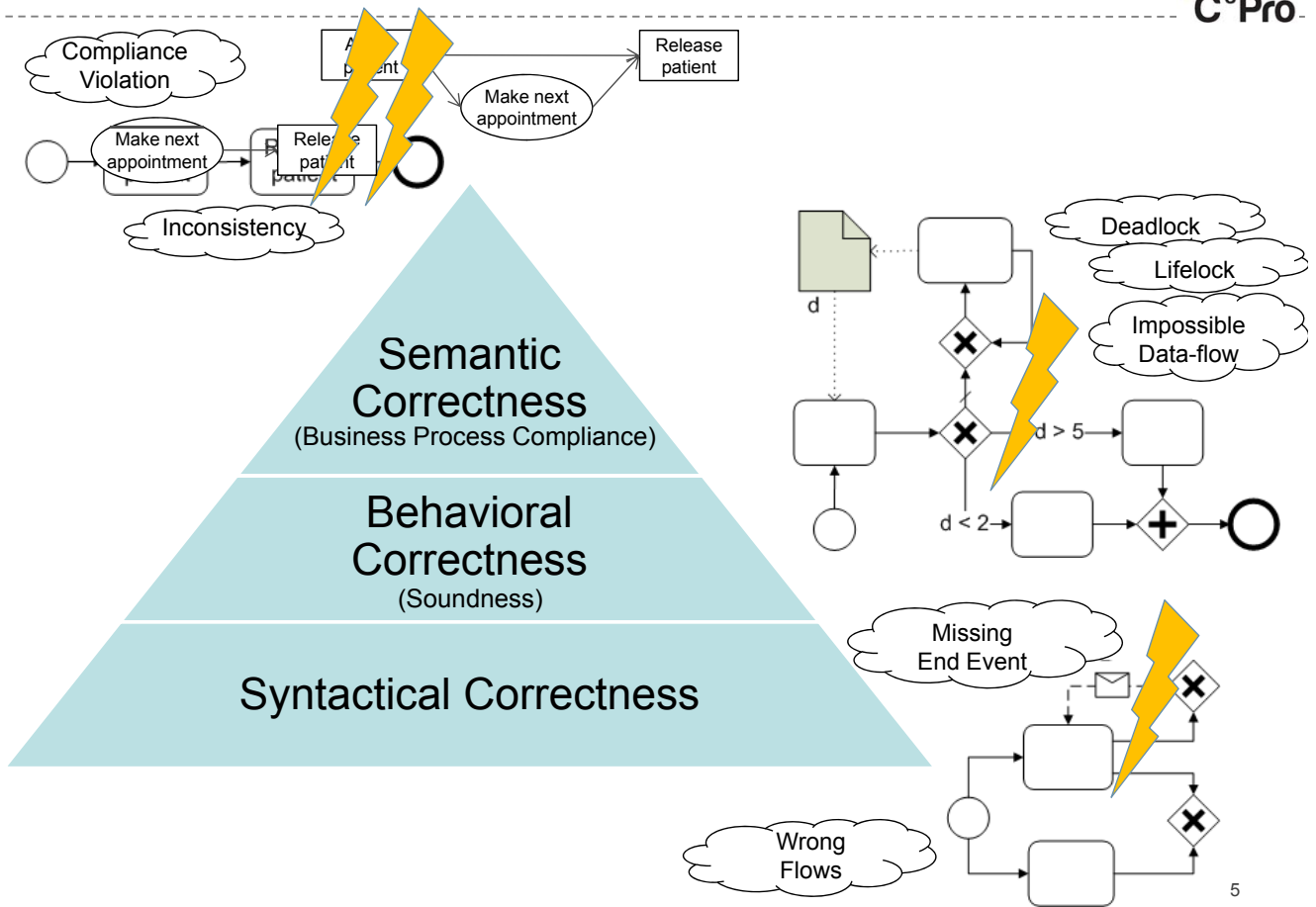


$G(\text{Admit\_patient} \rightarrow (\text{not Release\_patient} \cup \text{Make\_next\_appointment}))$

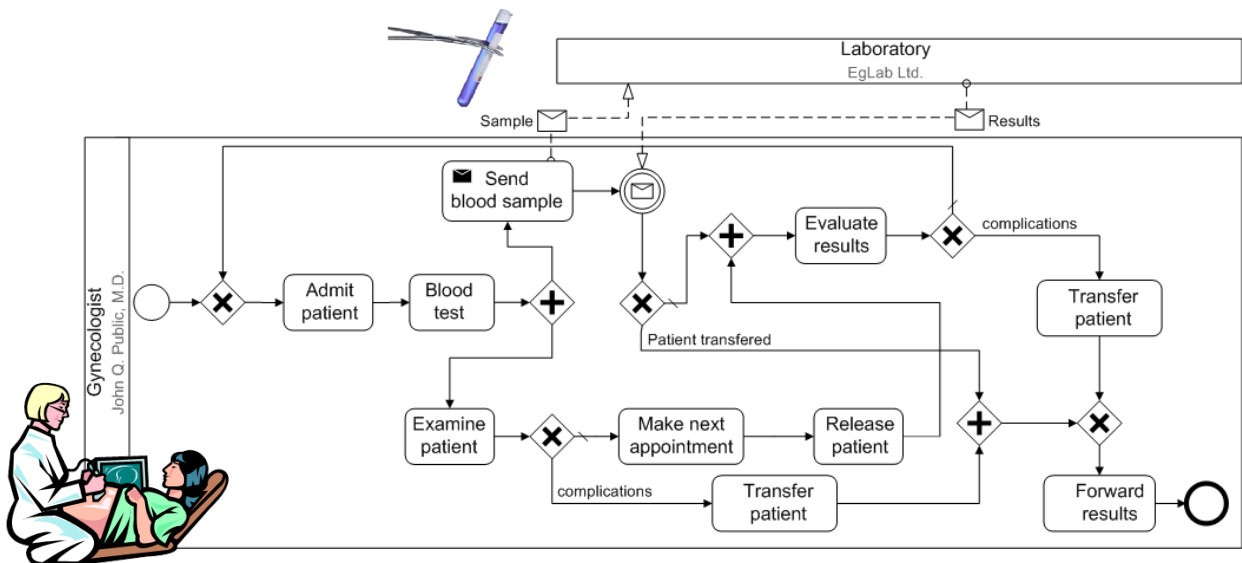
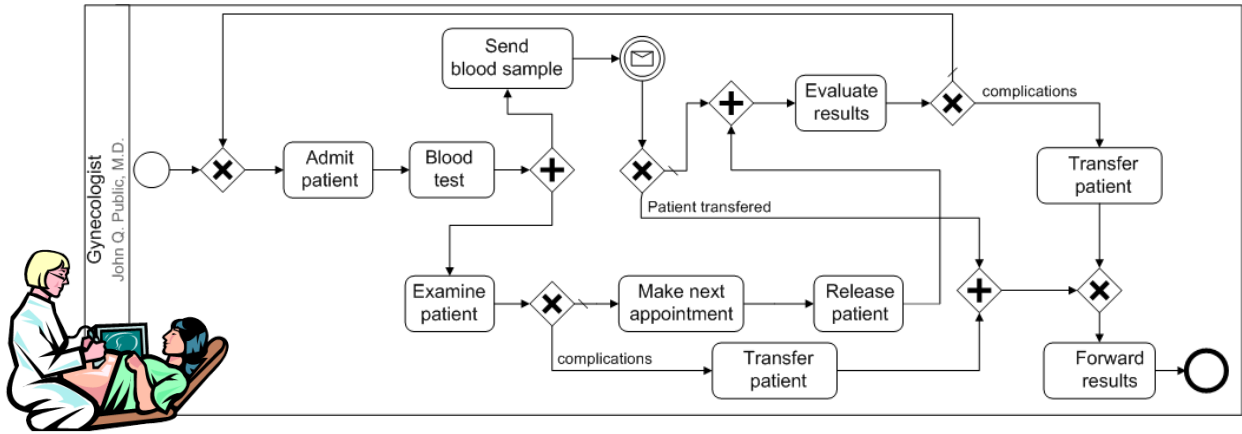


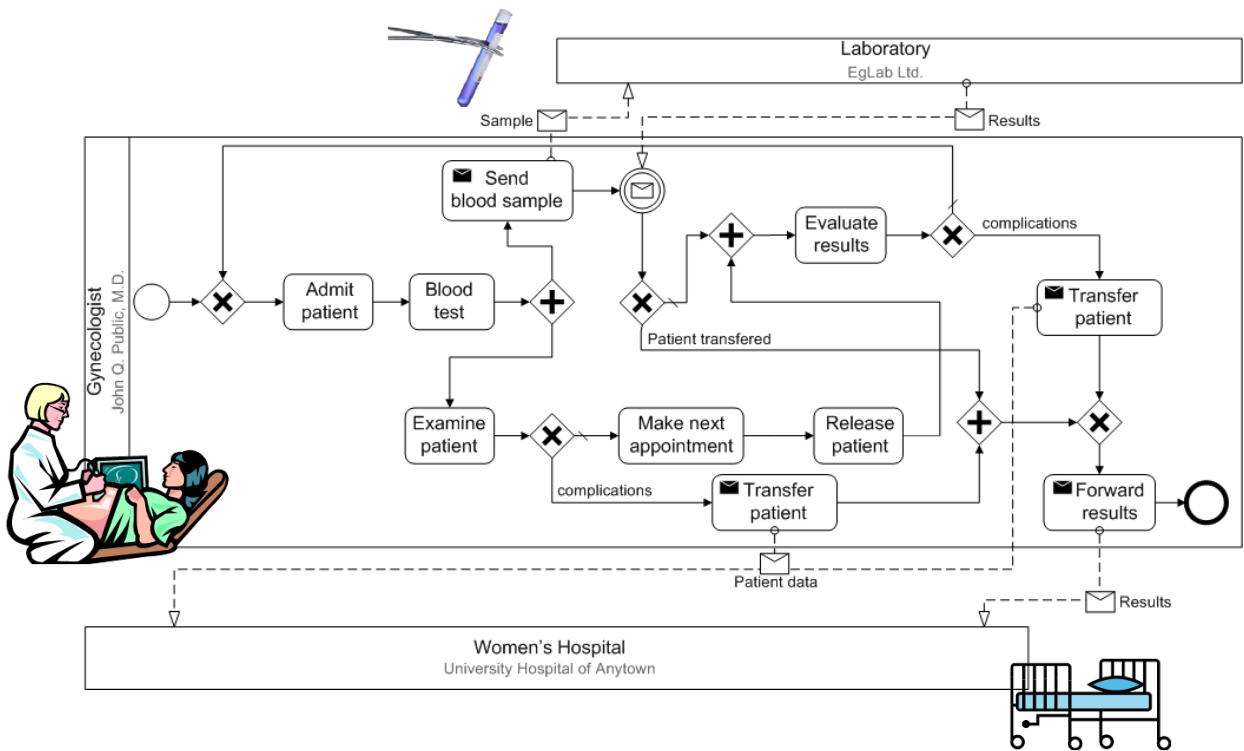
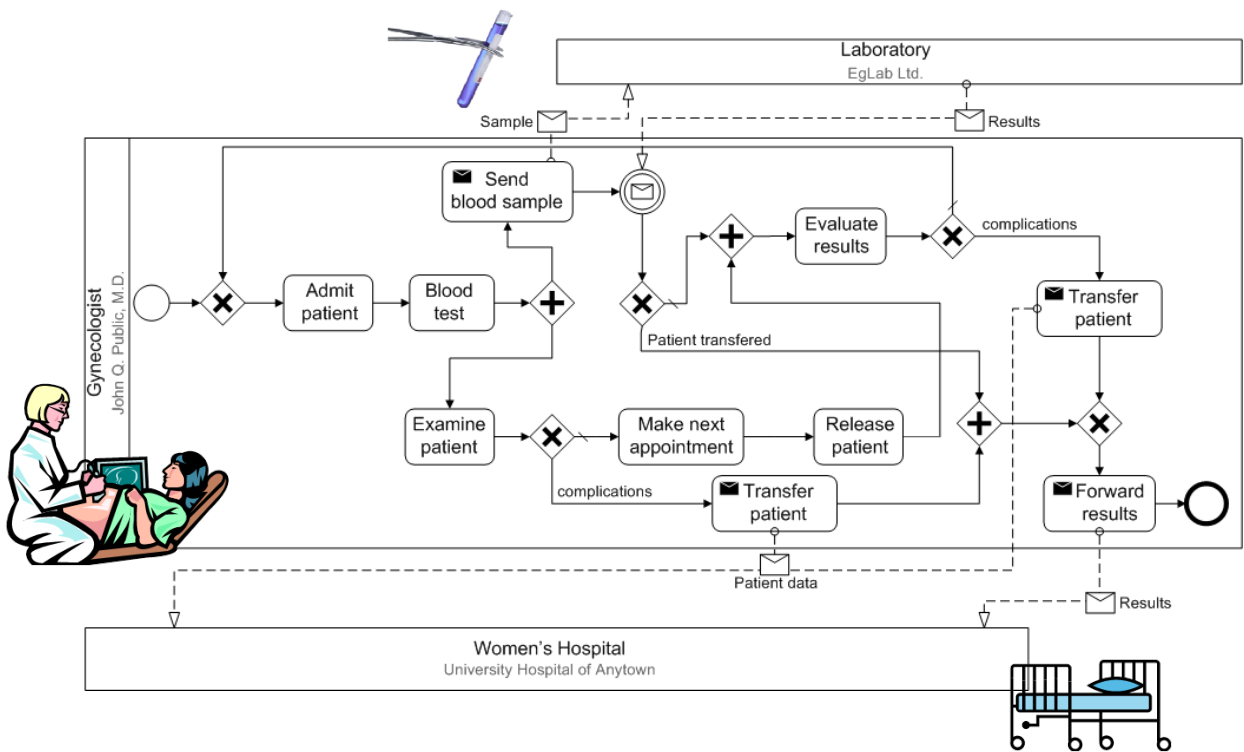
Guideline:  
After admission, a patient should not be released without making the next appointment.

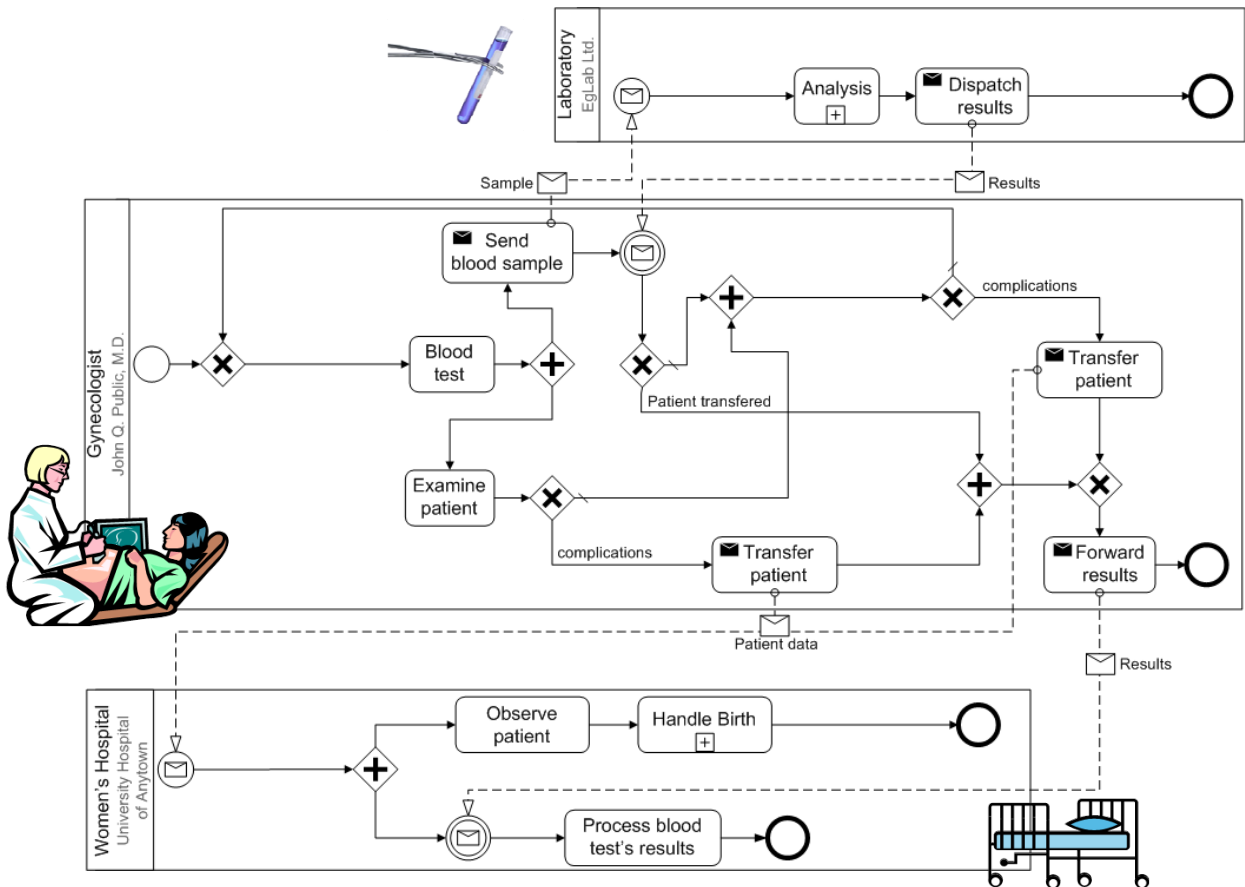
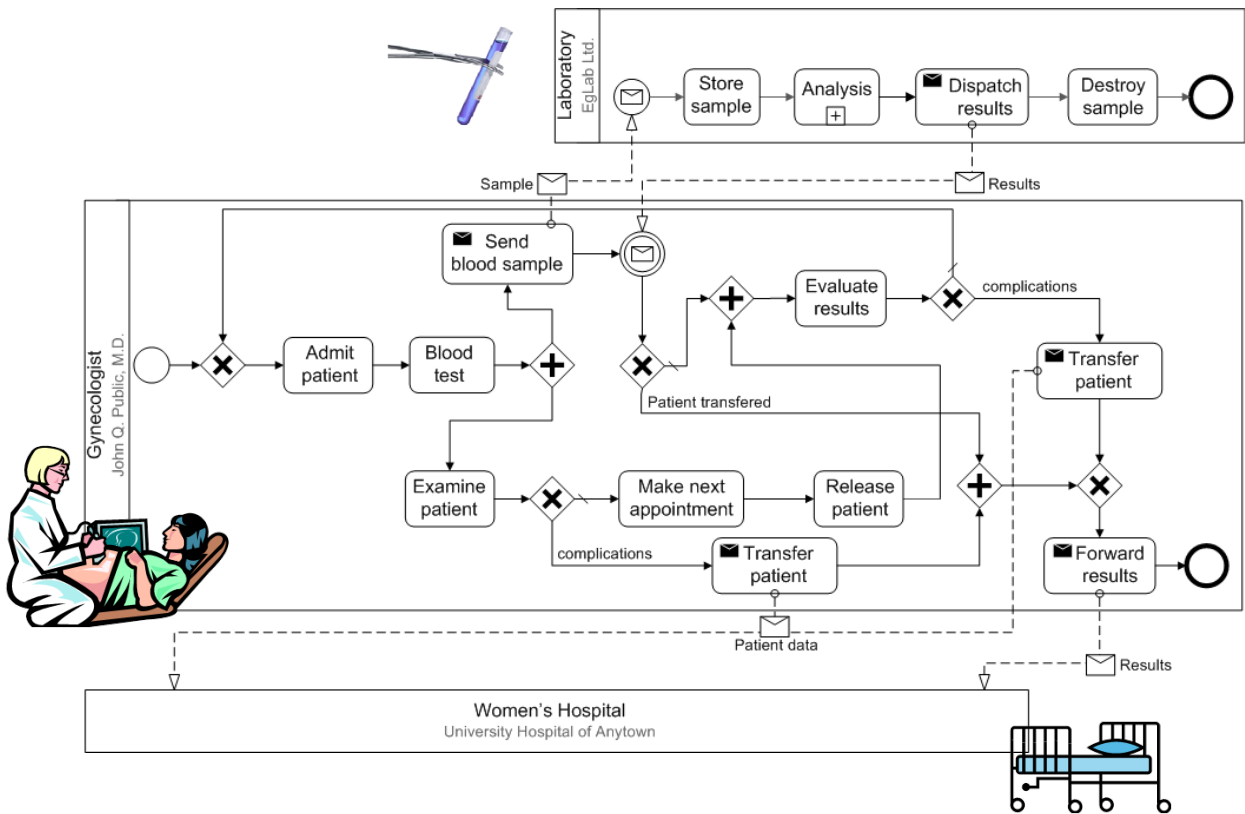
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**From Intra-organizational  
to Cross-organizational**





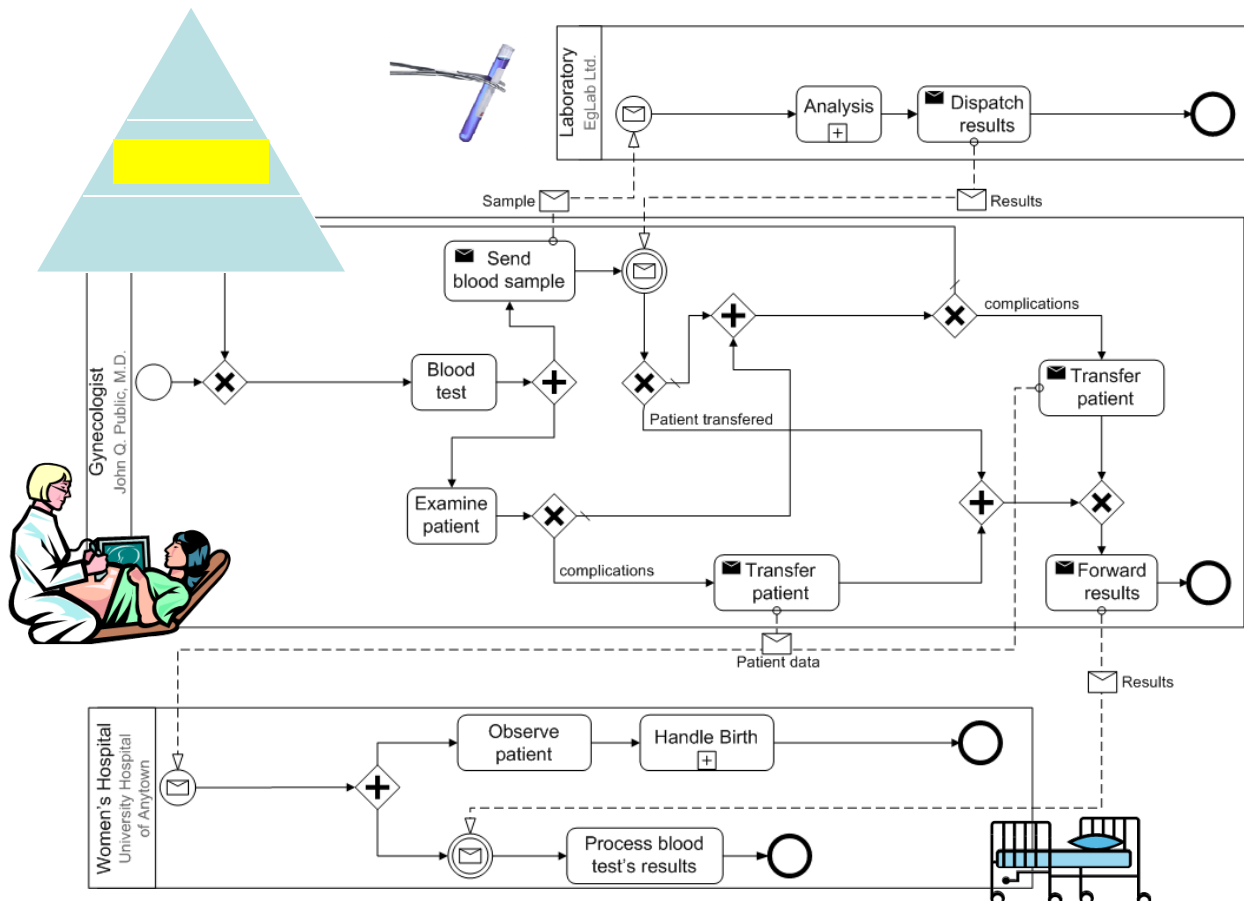


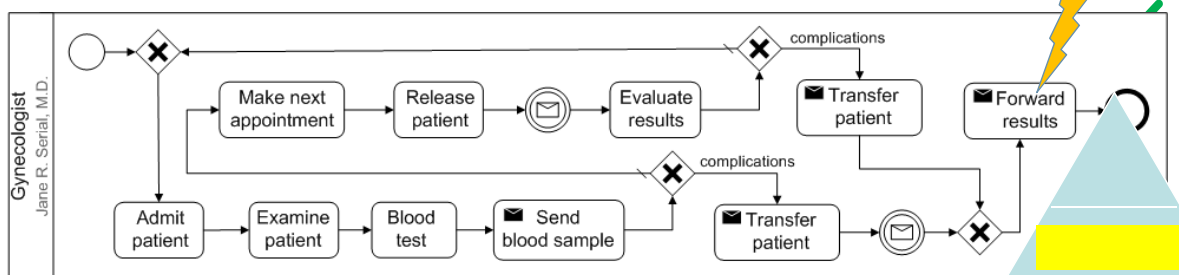
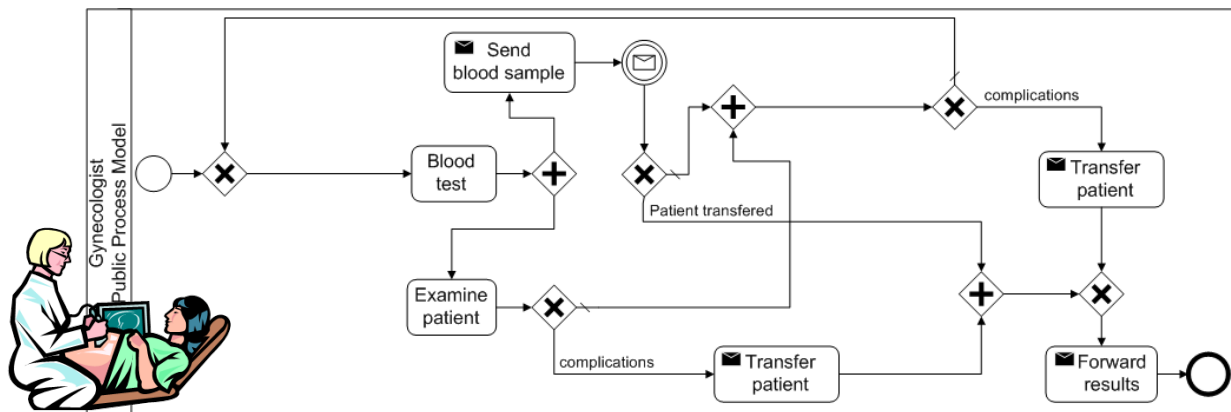




## Compatibility

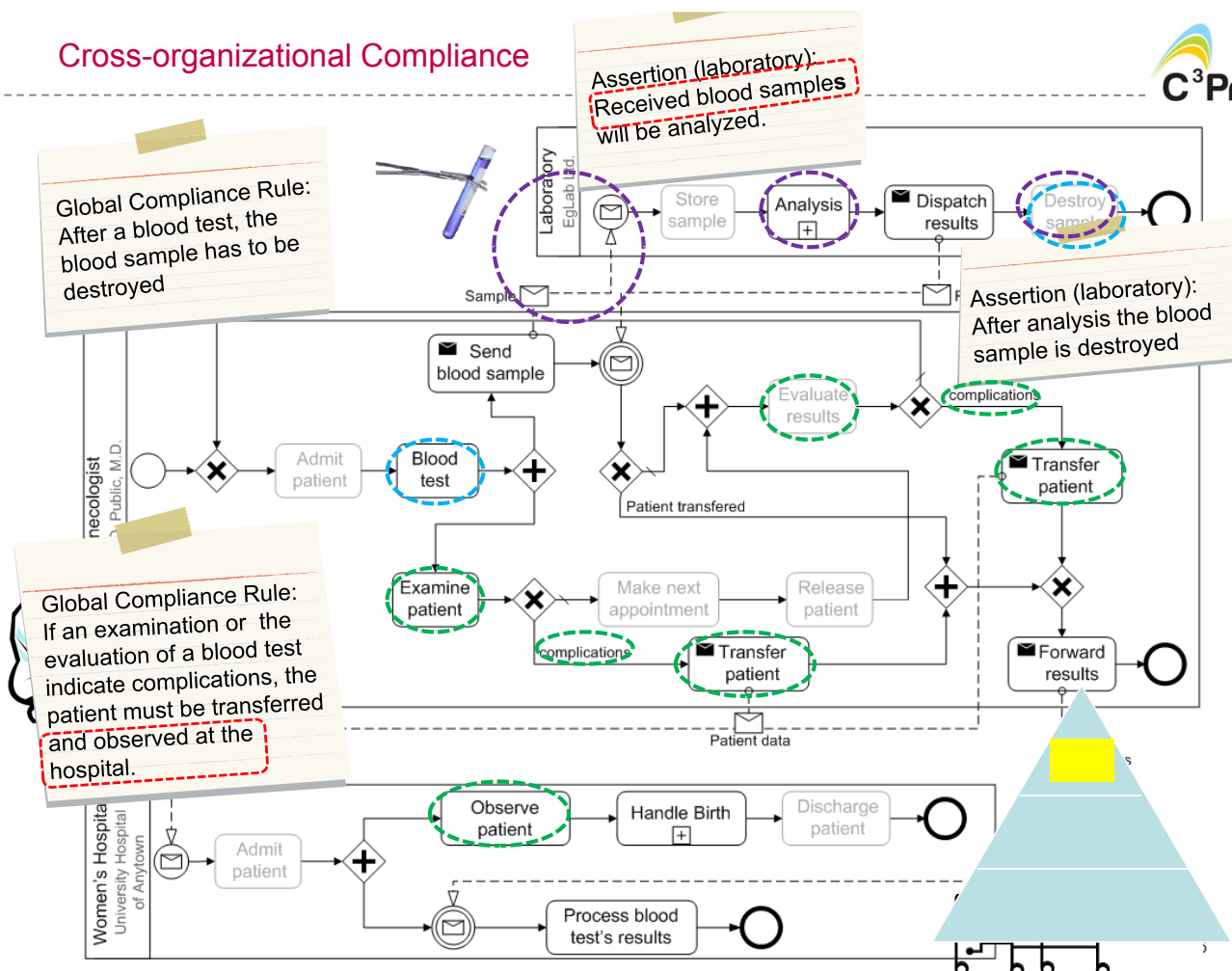
C<sup>3</sup>Pro





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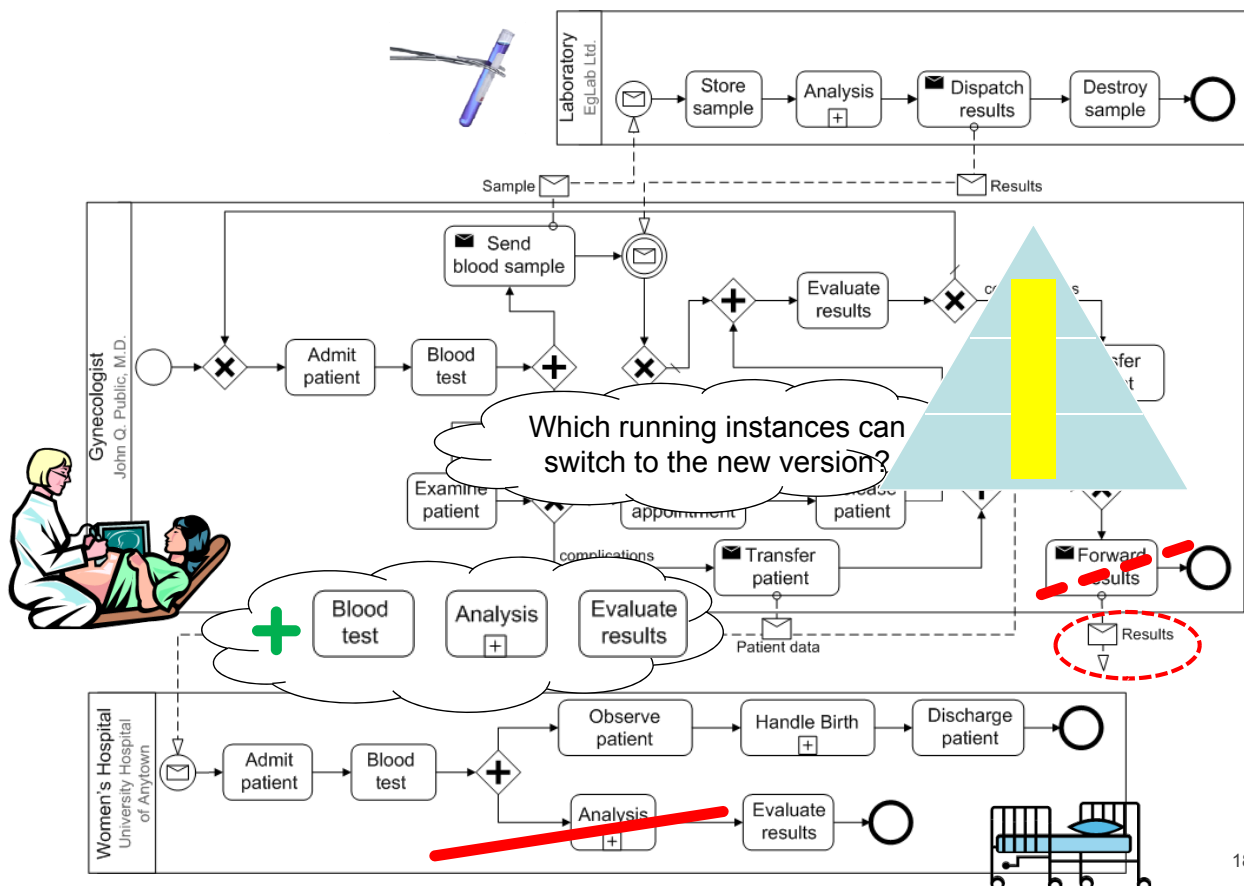
Cross-organizational Compliance

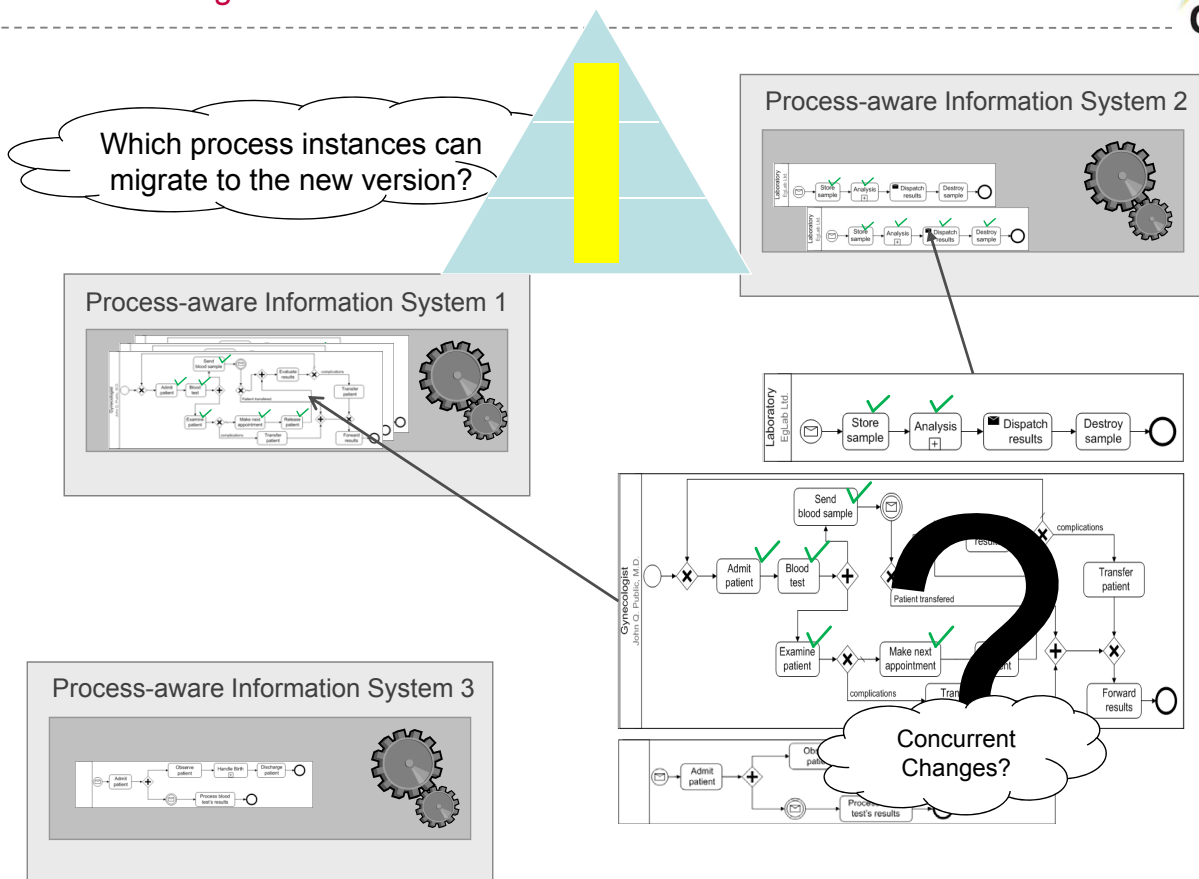






## Change Propagation





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## Challenges

- Modeling cross-organizational compliance rules and assertions
- Ensuring compliance with regard to privacy
- Change propagation
- Efficient Cross-organizational instance migration
- Ensuring compliance at change time
- Adequate user feedback

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**Thank you for your attention**

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