

BioPAX Layout Workgroup

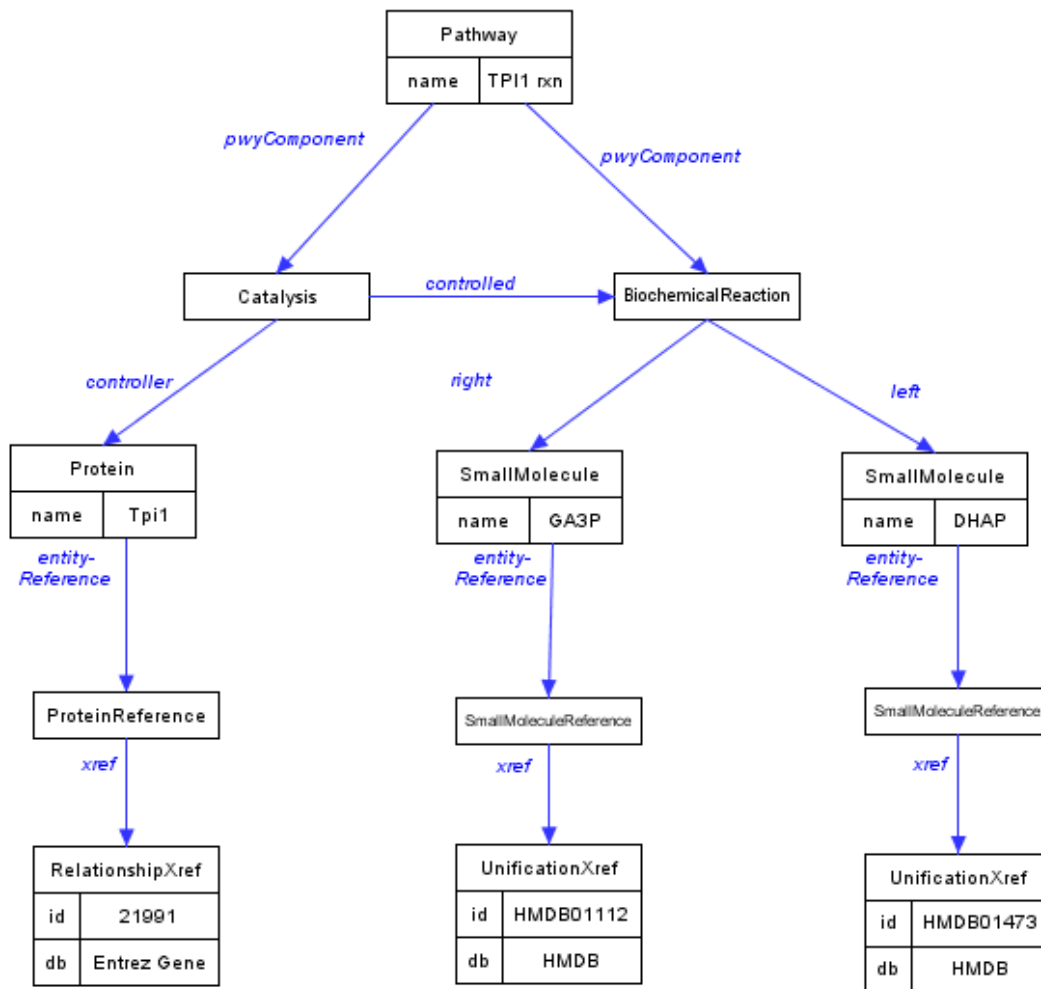
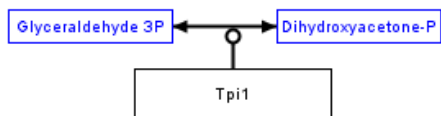
Martijn van Iersel

Why Layout?

- Good layout is hard
- Once you have one, you want to save it

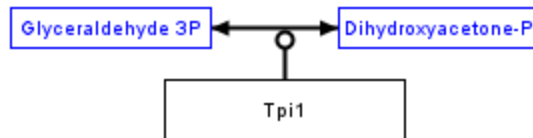
Proposal 1

Title: TPI1 Reaction



Proposal 1

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```
1 <?xml version="1.0" encoding="UTF-8"?>
2 - <bpss xmlns="http://biopax.org/bpss/2009">
3   <coordinate x="184.3" y="115.6" id="d49da" />
4   <coordinate x="97.5" y="74.6" id="a8bd7" />
5   <coordinate x="261.0" y="74.6" id="f7464" />
6 </bpss>
```

Proposal 1

- **Just coordinates**
- Provides 90% of result for 10% of effort
- Wait for SBGNML before going further

Proposal 1

- XML Schema based
- Many “StyleSheets” for one pathway

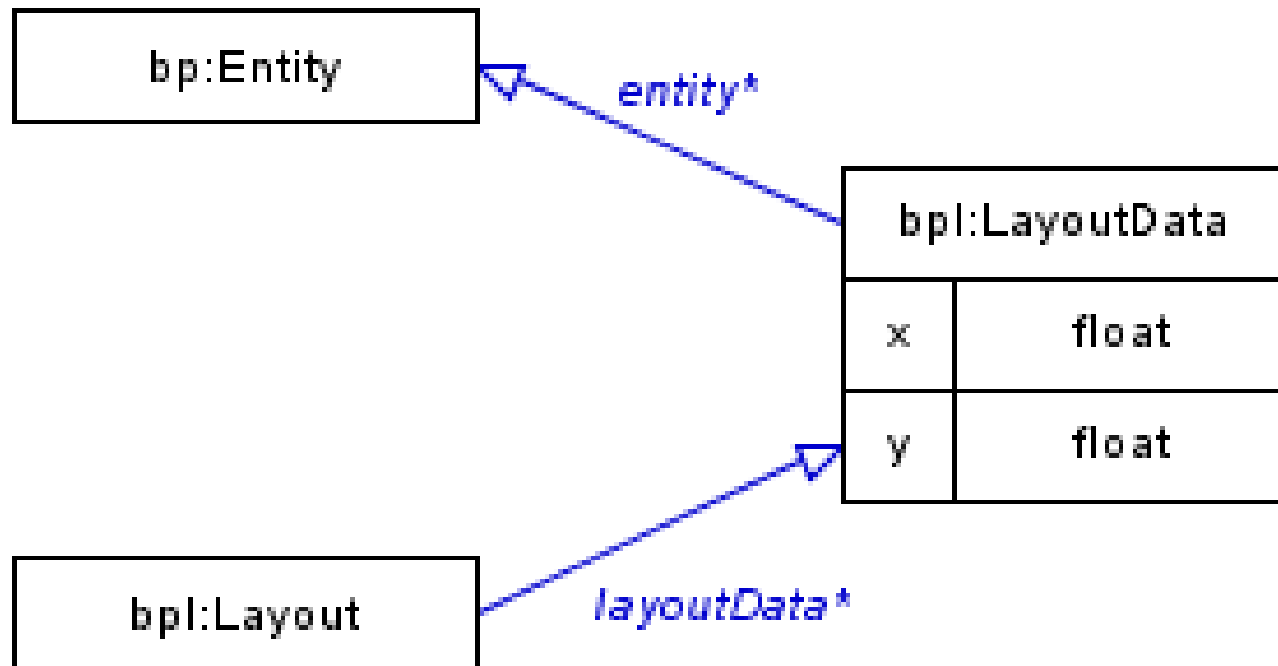
- Implemented in PathVisio-BioPAX converter

Proposal 1

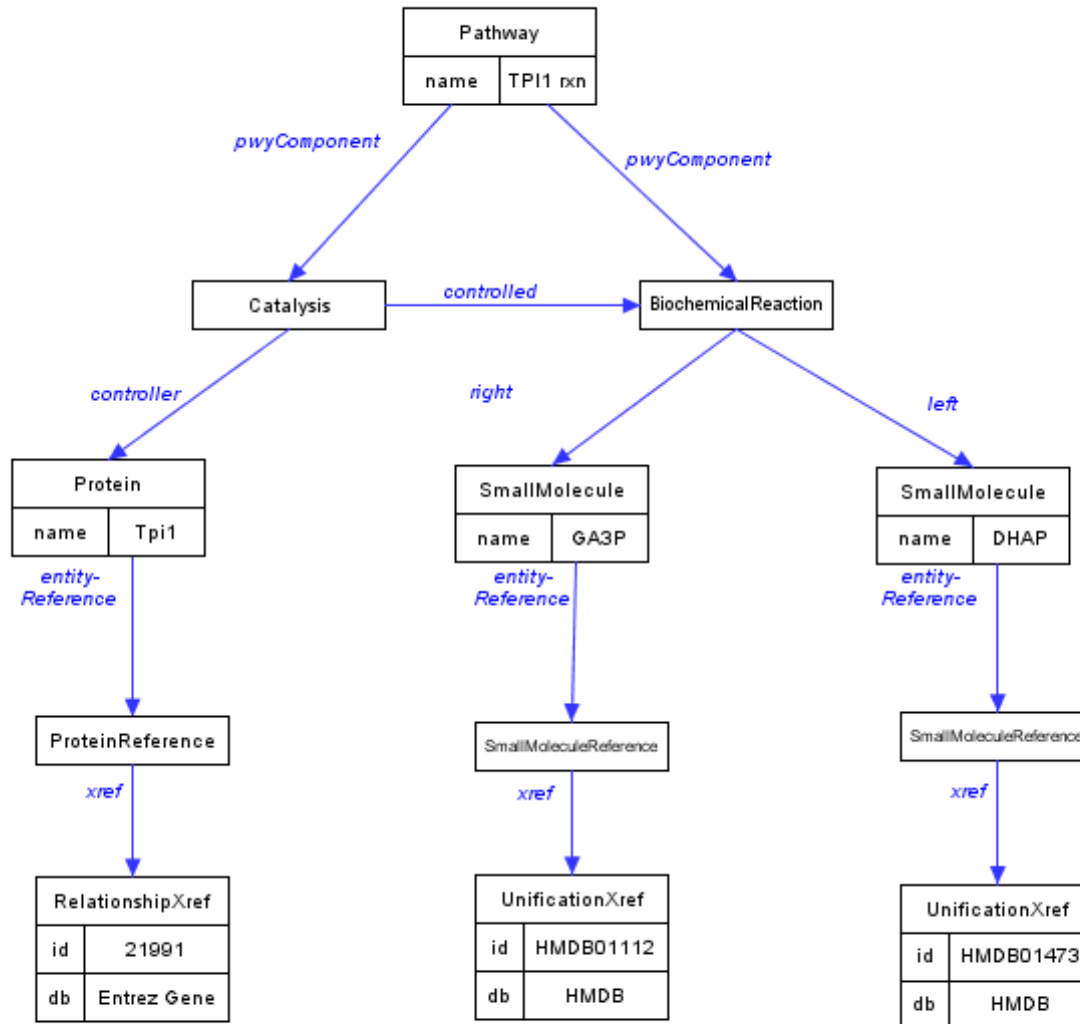
- Issues
 - Not OWL Based
 - Always separate files

Proposal 2

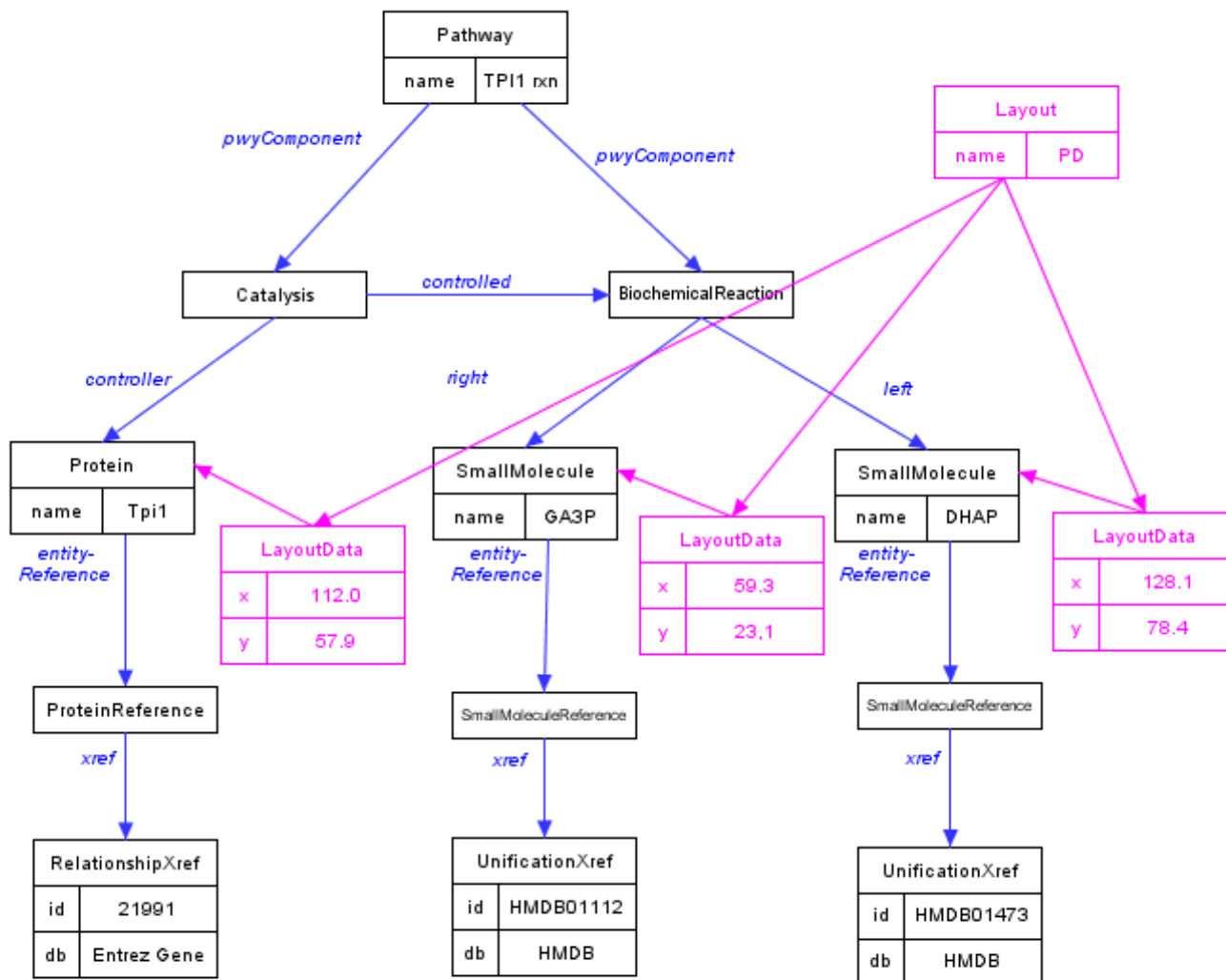
- OWL add-on



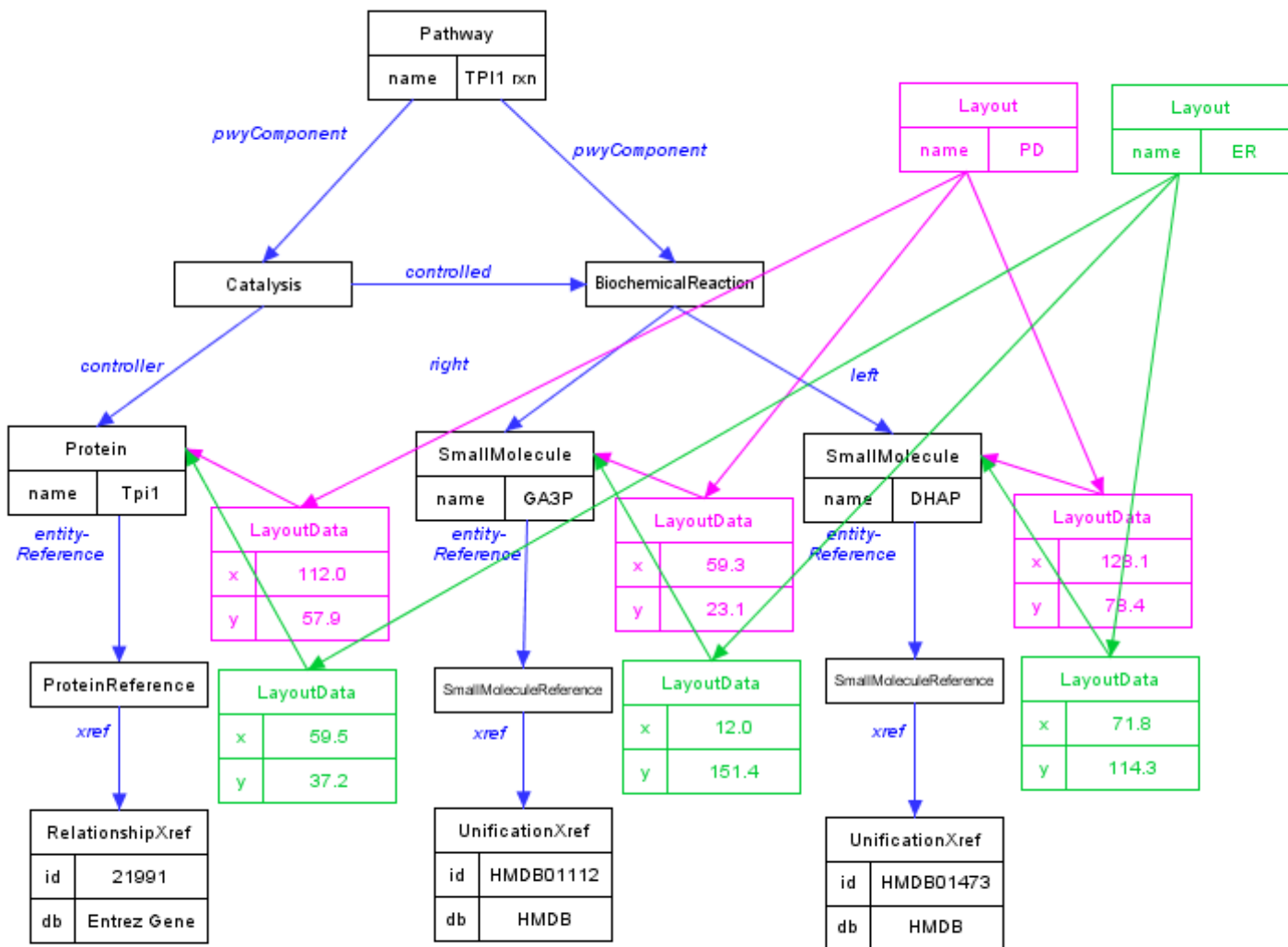
Proposal 2



Proposal 2



Proposal 2



Proposal 2

- Implementation is WIP
- Add-on
- Multiple layouts for the same pathway
- Multiple *or* single owl document
- Include SBGN-ML when it's fixed
 - 1:1 translation to OWL

Future

- More DataBase / Tool support
 - Call for developers
- Contact me
 - mvaniersel@gmail.com
 - Or watch the BioPAX mailing list