Data Presentation & Use

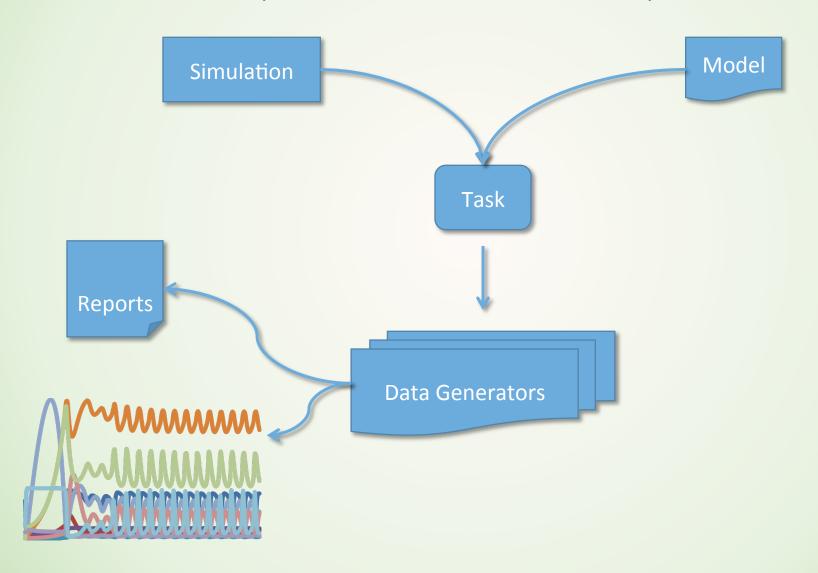


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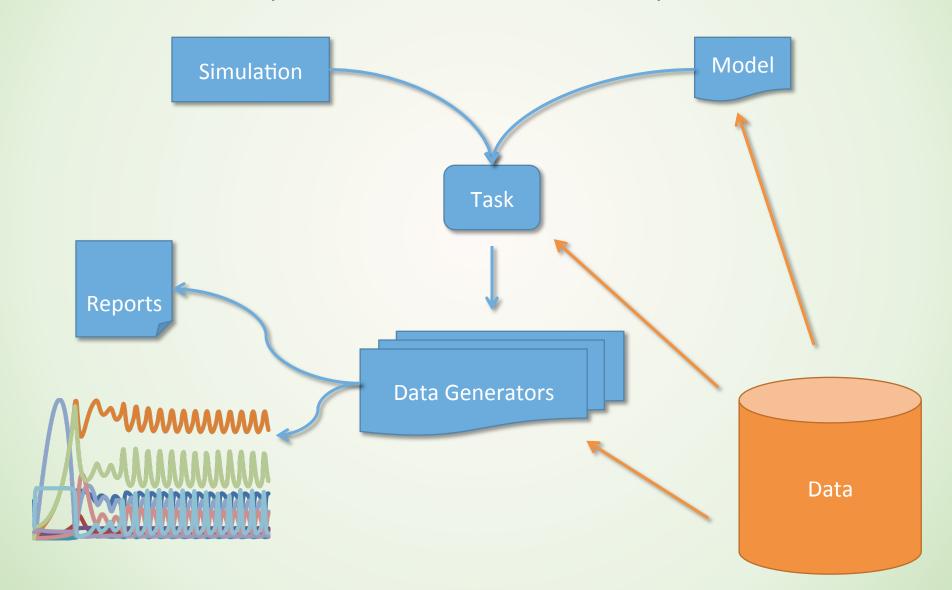
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SED-ML: Repeatable simulation experiments



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The Story so far ...

- 2008: SBRML Presented at Gothenburg ICSB,
- 2011: COMBINE, Heidelberg
 - Separation of NuML from SBRML
 - Plan on use it in SED-ML to reference data
- 2012: SED-ML Workshop, Rostock
 - Brain storming on how to encode parameter estimation, and reference data using NuML
- 2013: HARMONY, UCHC
 - Decision *all* data to be stored with SED-ML to be in NuML format
 - That way no endless list of formats to support, and mapping of data guaranteed

Agenda

- Joseph Data: Numerical Markup Language & libNuML
- Maciej Swat: Data in PharmML
- General Discussion

http://tinyurl.com/sed-ml-data-use

Data ...

```
<dataDescription id="data2" source="URI" type="numl">
 <dimensionDescription>
   <compositeDescription name="time" indexType="int">
     <compositeDescription name="columnId" indexType="string">
       <atomicDescription name="Concentration" valueType="double" />
     </compositeDescription>
   </compositeDescription>
  </dimensionDescription>
  <dataSource id = "col1">
      <slice name="columnId" value="MKK"/>
    </dataSource>
  </listOfDataSources>
</dataDescription>
```

More information ...

- NuML
 - http://code.google.com/p/numl/
- SBRML
 - http://www.comp-sys-bio.org/tiki-index.php? page=SBRML
- .Net library
 - http://sbrml.sf.net