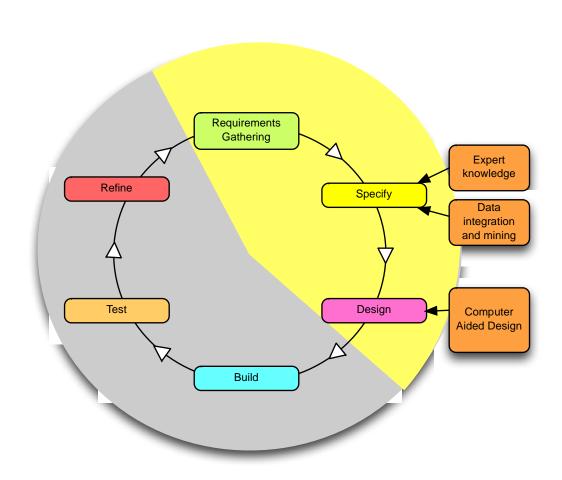
## Design and reality in SynBio

Anil Wipat, Newcastle

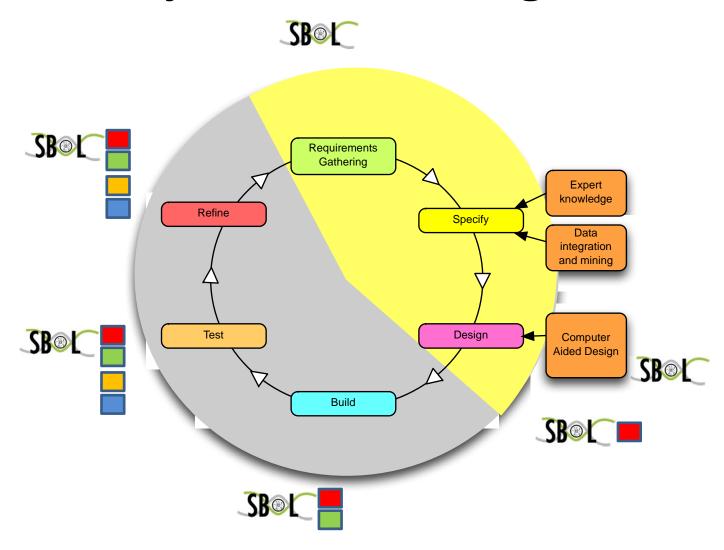
## Synbio is an engineering discipline

Synbio is engineering



## SBOL is not just about design

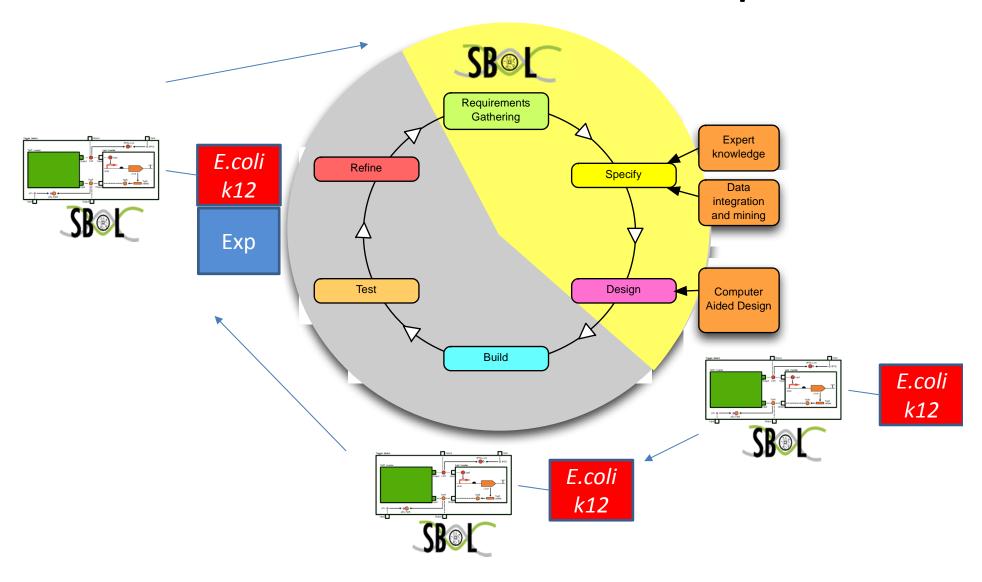
- An SBOL design specified
- SBOL should be able to travel around the cycle
- Capturing data as it goes



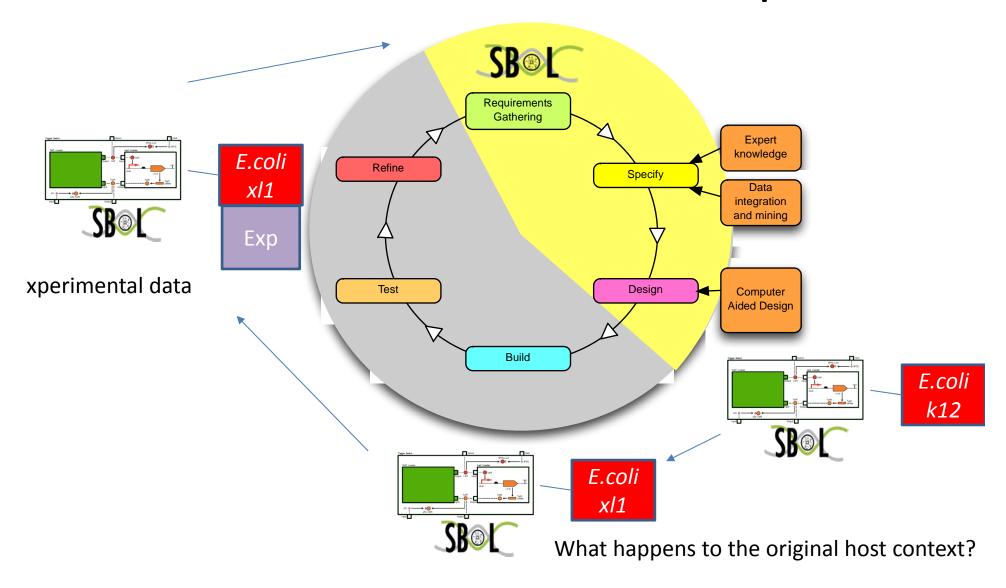
#### What you want vs what you get

Build and test Design Lab 1 Ехр SB®L Lab 2 Ехр Lab 3 Ехр SB®L

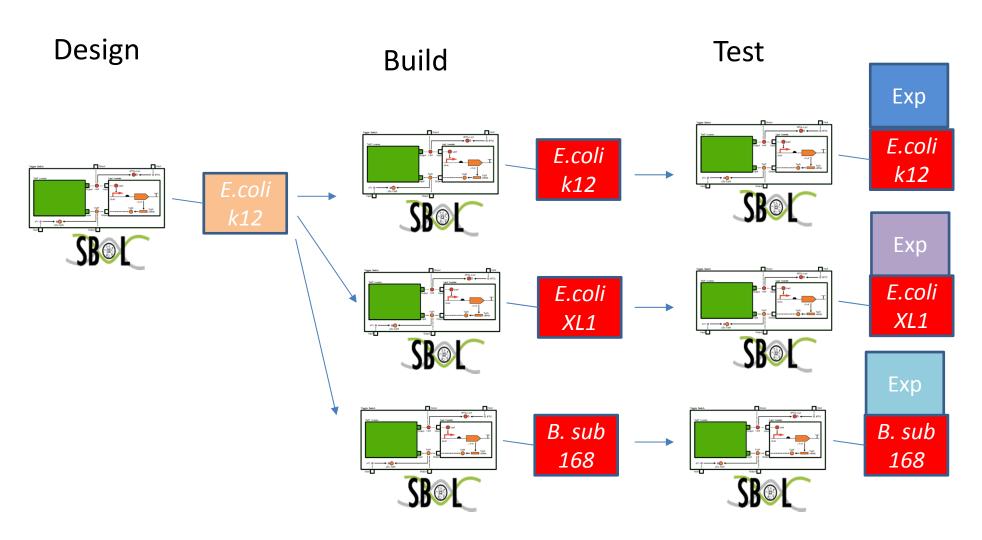
## Host context as an example



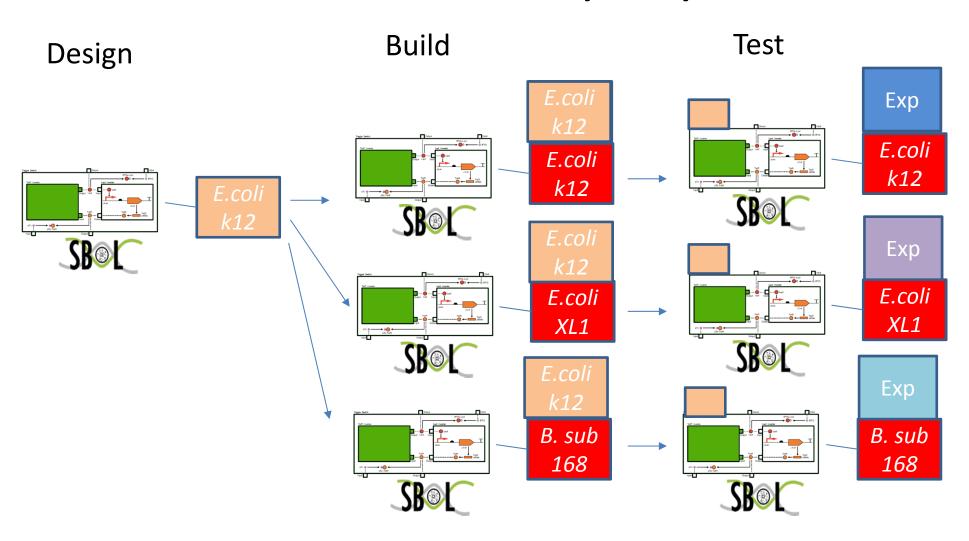
#### Host context as an example



# An SBOL design can be 'built' by many labs and in many ways



# An SBOL design can be 'built' by many labs and in many ways



#### Reasons for sharing SBOL?

- To provide someone with a design so they can build it
  - Doesn't need experimental data attached
- To provide somebody with information about what happened when a design was built
  - Does require experimental data
- Requires two forms of SBOL
  - An SBOL template design (immutable)
  - An instance of an SBOL design