

# Collaboration via the model repository

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# PMR2 – Andre's view

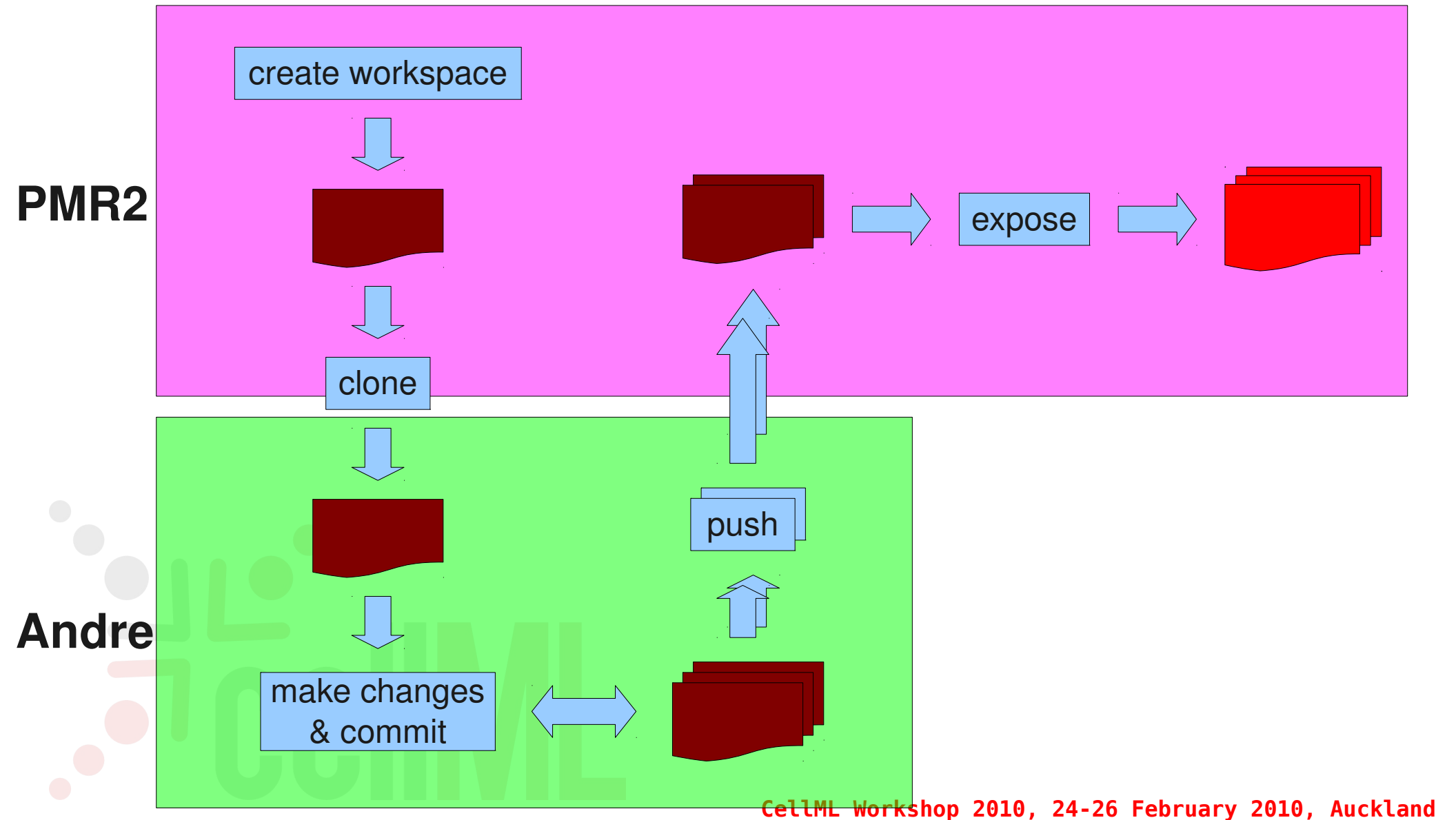
- Website
  - exposure pages
  - predefined model listings (keywords)
- Database
  - some metadata pulled from models
- Collection of independent mercurial repositories
  - workspaces
  - can store arbitrary data, not just CellML XML documents!

# Mercurial

- Each workspace is a standalone mercurial repository
  - distributed version control system (DVCS)
  - no central repository
- Mercurial repositories can be used independently from PMR2
  - best to create them using PMR2



# Typical workflow

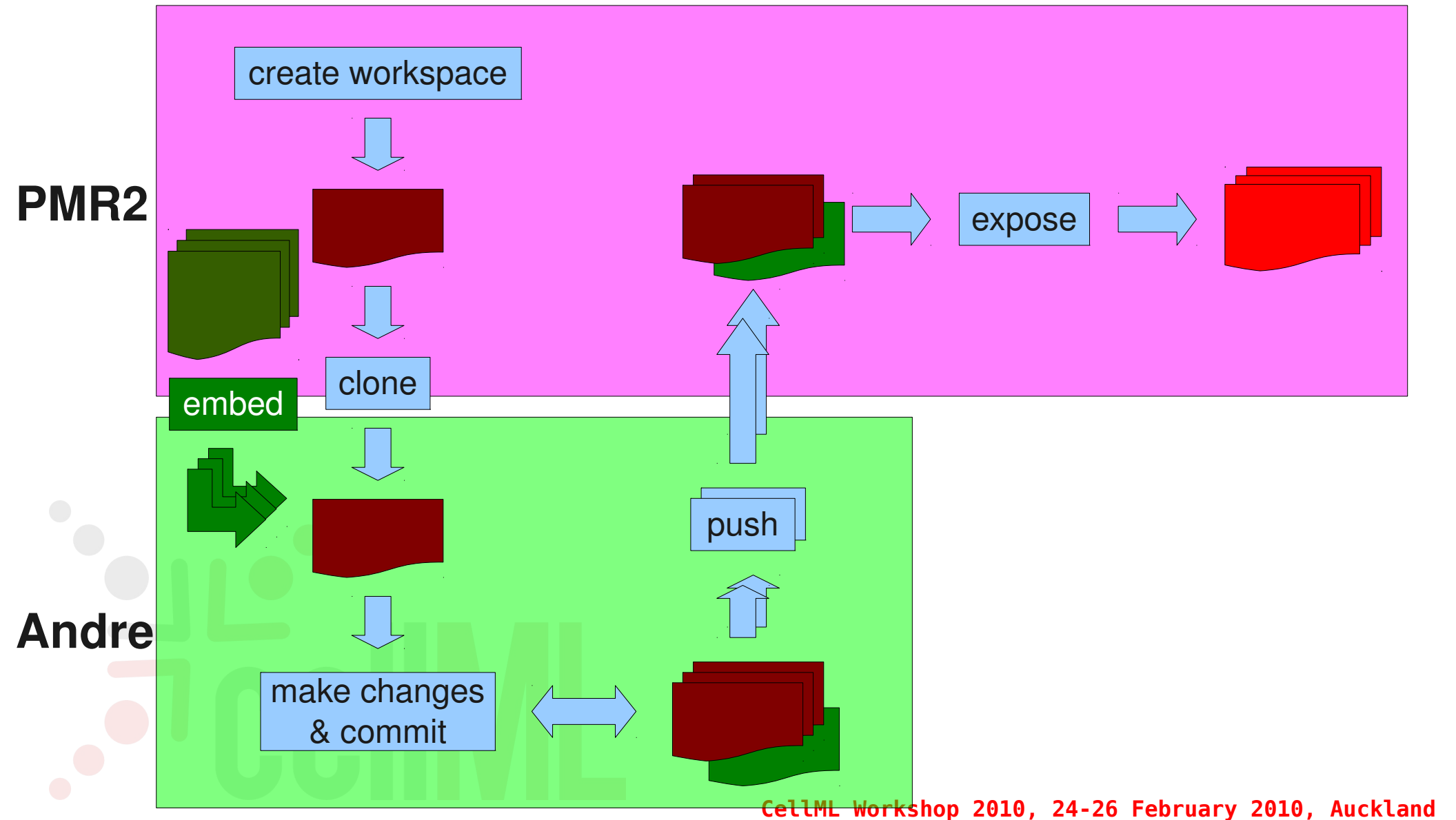


# Embedded workspaces

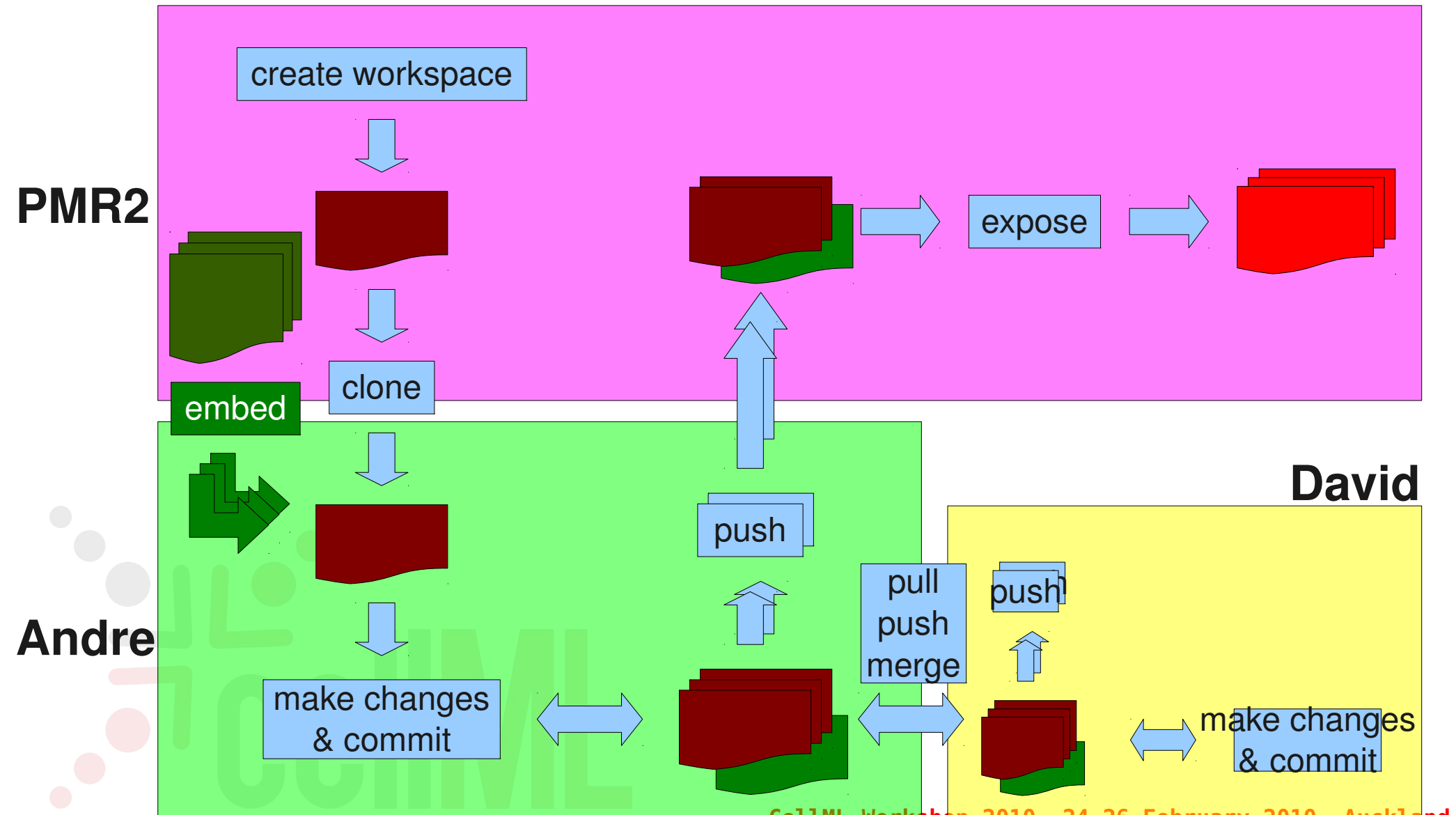
- Mercurial subrepos
- Assemble workspaces by pulling together workspaces
  - at specific points in the workspace's evolution
  - from other authors/owners
  - plug-and-play



# “Advanced” workflow

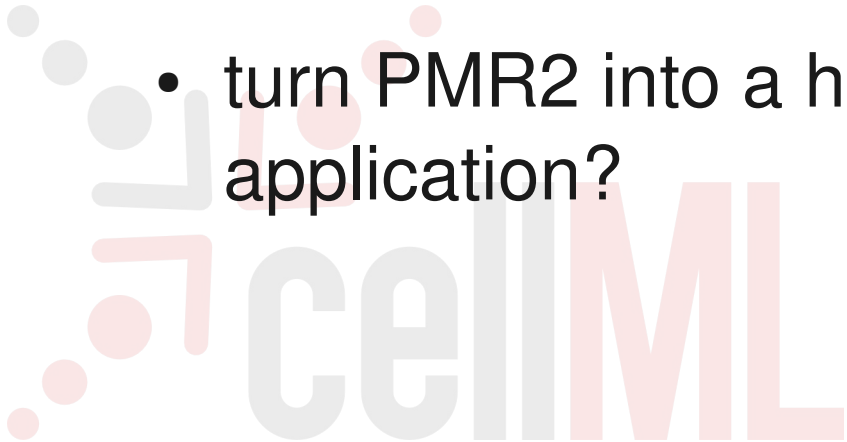


# “Advanced” workflow



# Collaborating via the model repository

- Background technology all in place.
- Works well now for people familiar with and happy to use mercurial directly.
- What about everyone else?
  - extend PMR2 to provide a range of web services to allow better integration with tools?
  - turn PMR2 into a heavyweight feature rich web application?





# Conclusion

- Collaborating via the model repository pretty much possible – at the mercurial level.
- Collaborating via the model repository still needs work to hide the details of mercurial
  - managing embedded workspaces.

