

DocuBricks! Documentation Tool for Open Plant Tech

- Many open hardware projects exist already

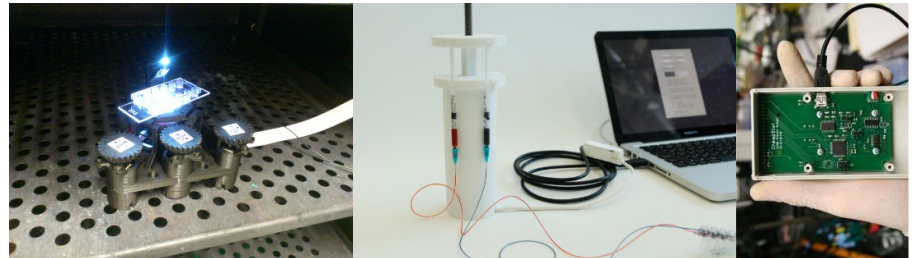
...but are hard to recreate

...cannot easily be cited

...calibration/validation/testing

...difficult to reuse/adapt

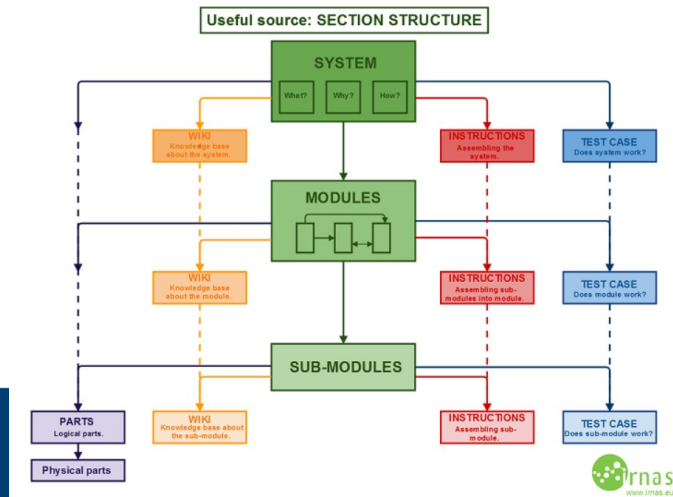
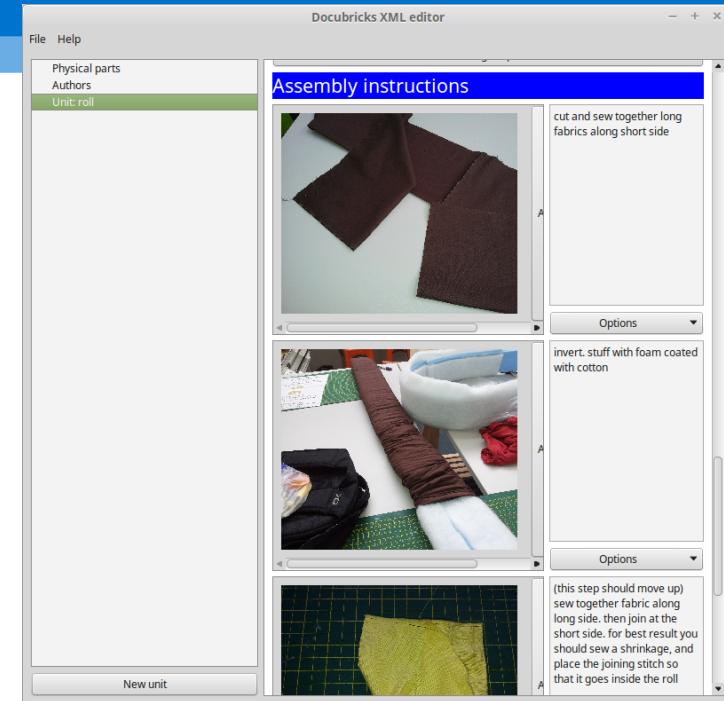
- Significant effort in replicating!
- Every replication is a fork



Create an open and universal Open Source Hardware (OSH) Documentation Software - a modular standard

DocuBricks - Implementation/Deliverables

- OpenPlant project archive format (XML)
 - Bill of Materials (BOM)
 - Assembly instructions
 - Repair and testing information
 - Modular structure
- Desktop app to ensure consistency
 - Linux/Windows/OSX
- Phone app for field usage
- Stand-alone Web browser interface
- Citable database
 - Harvest projects from e.g. GitHub
 - Cross-referencing and module reuse (DOI)
 - Ratings and simple feedback
 - Alternative component suggestions



Outcomes/Benefits

- **A goto methodology for documenting open hardware**
 - Inherently modular
 - Verifiable
 - Useful beyond OpenPlant
 - Self-contained format
 - Open API
- Benefiting to all open hardware project
 - Already five IRNAS projects
 - Several open plant projects
 - Journal commitment



OpenPlant

OPEN TECHNOLOGIES FOR PLANT SYNTHETIC BIOLOGY

New
Open
Hardware
Journal



Who we are



- Tobias Wenzel
Physics and
Biochemistry
Cambridge



- Dr. Carlos Lugo
John Innes Centre &
Sainsbury
Laboratory



- Dr. Johan Henriksson
European Molecular
Biology Laboratory

EMBL-EBI



Karolinska
Institutet



- Luka Mustafa
Shuttleworth Fellow,
IRNAS institute



Co-funder!