Consortium – Tech Stack

– backend ecology for connecting publishing platforms
to deliver next-gen systems
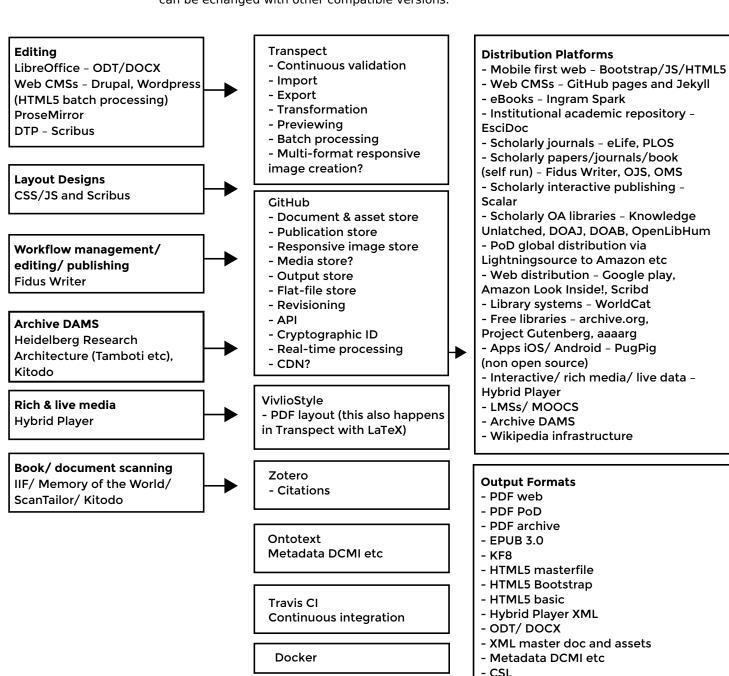
Inputs

Multi-format publication transformation*, continuous validation & flat-file storage

Outputs

*All formats are required to be 'Publication Ready Outputs' (PRO), meaning 100% ready for live publishing. These are the benchmarks that files are validated against).

NB: many software and platform modules are stand-in examples and can be echanged with other compatible versions.

Editing
LibreOffice – ODT/DOCX
Web CMSs – Drupal, Wordpress
(HTML5 batch processing)
ProseMirror
DTP – Scribus

Layout Designs
CSS/JS and Scribus

Workflow management/ editing/ publishing
Fidus Writer

Archive DAMS
Heidelberg Research
Architecture (Tamboti etc),
Kitodo

Rich & live media
Hybrid Player

Book/ document scanning
IIF/ Memory of the World/
ScanTailor/ Kitodo

Transpect
- Continuous validation
- Import
- Export
- Transformation
- Previewing
- Batch processing
- Multi-format responsive image creation?

GitHub
- Document & asset store
- Publication store
- Responsive image store
- Media store?
- Output store
- Flat-file store
- Revisioning
- API
- Cryptographic ID
- Real-time processing
- CDN?

VivlioStyle
- PDF layout (this also happens in Transpect with LaTeX)

Zotero
- Citations

Ontotext
Metadata DCMI etc

Travis CI
Continuous integration

Docker

Distribution Platforms
- Mobile first web – Bootstrap/JS/HTML5
- Web CMSs – GitHub pages and Jekyll
- eBooks – Ingram Spark
- Institutional academic repository – EsciDoc
- Scholarly journals – eLife, PLOS
- Scholarly papers/journals/book (self run) – Fidus Writer, OJS, OMS
- Scholarly interactive publishing – Scalar
- Scholarly OA libraries – Knowledge Unlatched, DOAJ, DOAB, OpenLibHum
- PoD global distribution via Lightningsource to Amazon etc
- Web distribution – Google play, Amazon Look Inside!, Scribd
- Library systems – WorldCat
- Free libraries – archive.org, Project Gutenberg, aaaarg
- Apps iOS/ Android – PugPig (non open source)
- Interactive/ rich media/ live data – Hybrid Player
- LMSs/ MOOCS
- Archive DAMS
- Wikipedia infrastructure

Output Formats
- PDF web
- PDF PoD
- PDF archive
- EPUB 3.0
- KF8
- HTML5 masterfile
- HTML5 Bootstrap
- HTML5 basic
- Hybrid Player XML
- ODT/ DOCX
- XML master doc and assets
- Metadata DCMI etc
- CSL
- Scibus
- Wikimedia compatible formats TBC