

Lessons Learned from Preparation of the ENDF/B-VIII.0 Library

D. Brown, National Nuclear Data Center, BNL



Big issues encountered in ENDF/B-VIII.0 preparation

- Changes that happen very late in game
e.g. P(nu), FER, EPICS
- Things taking longer than expected
e.g. CIELO, TSL
- Bugs not getting fixed in timely manner
- GForge hiccups
- Communication issues (no CSEWG mailing list)

Big issues encountered in ENDF/B-VIII.0 preparation

- Changes that happen very late in game
e.g. P(nu), FER, EPICS
- Things taking longer than expected
e.g. CIEP
- Bugs not getting fixed in timely manner
- GForge hiccups
- Communication issues (no CSEWG mailing list)

These we will talk about
during the meeting

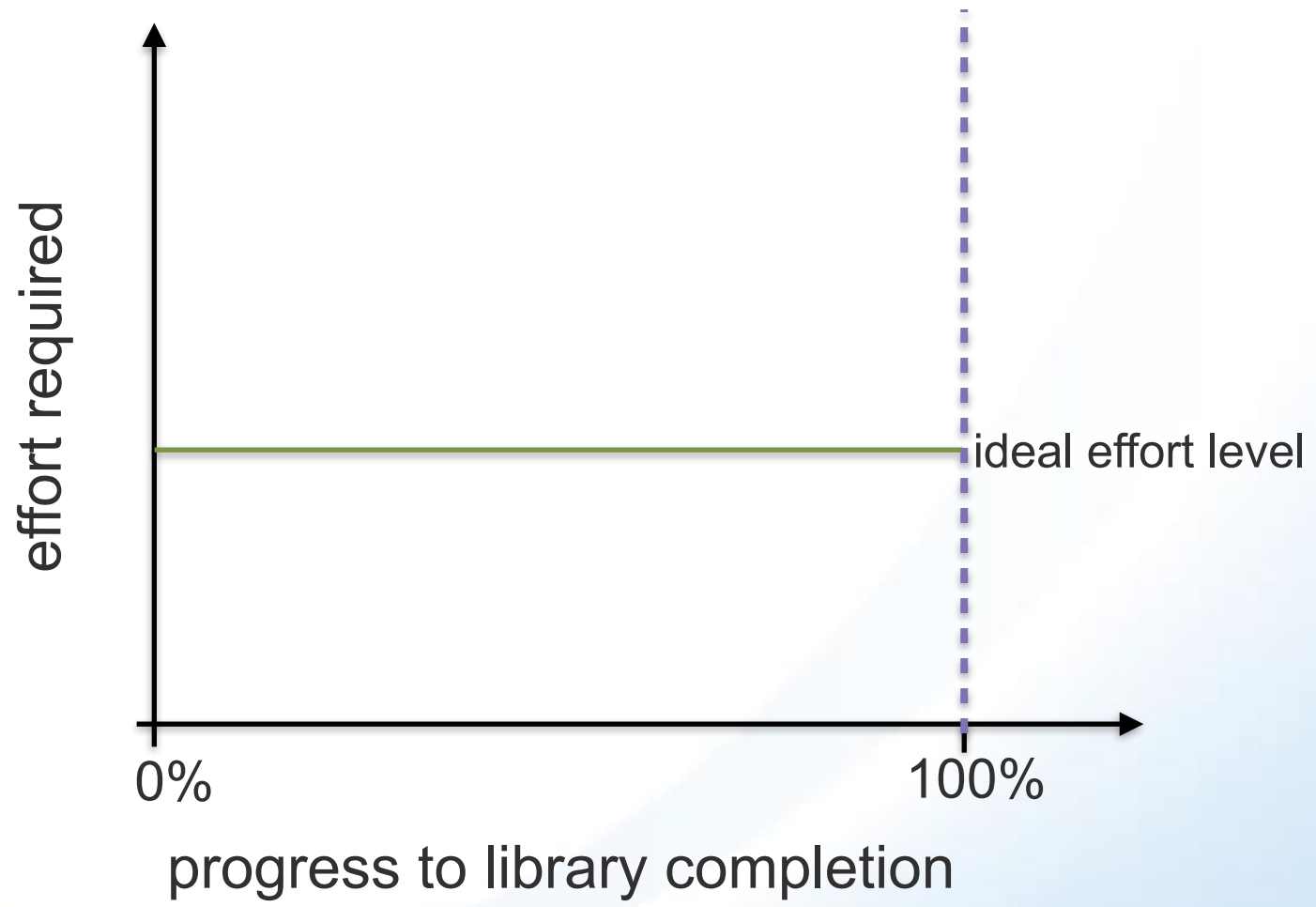
Big issues encountered in ENDF/B-VIII.0 preparation

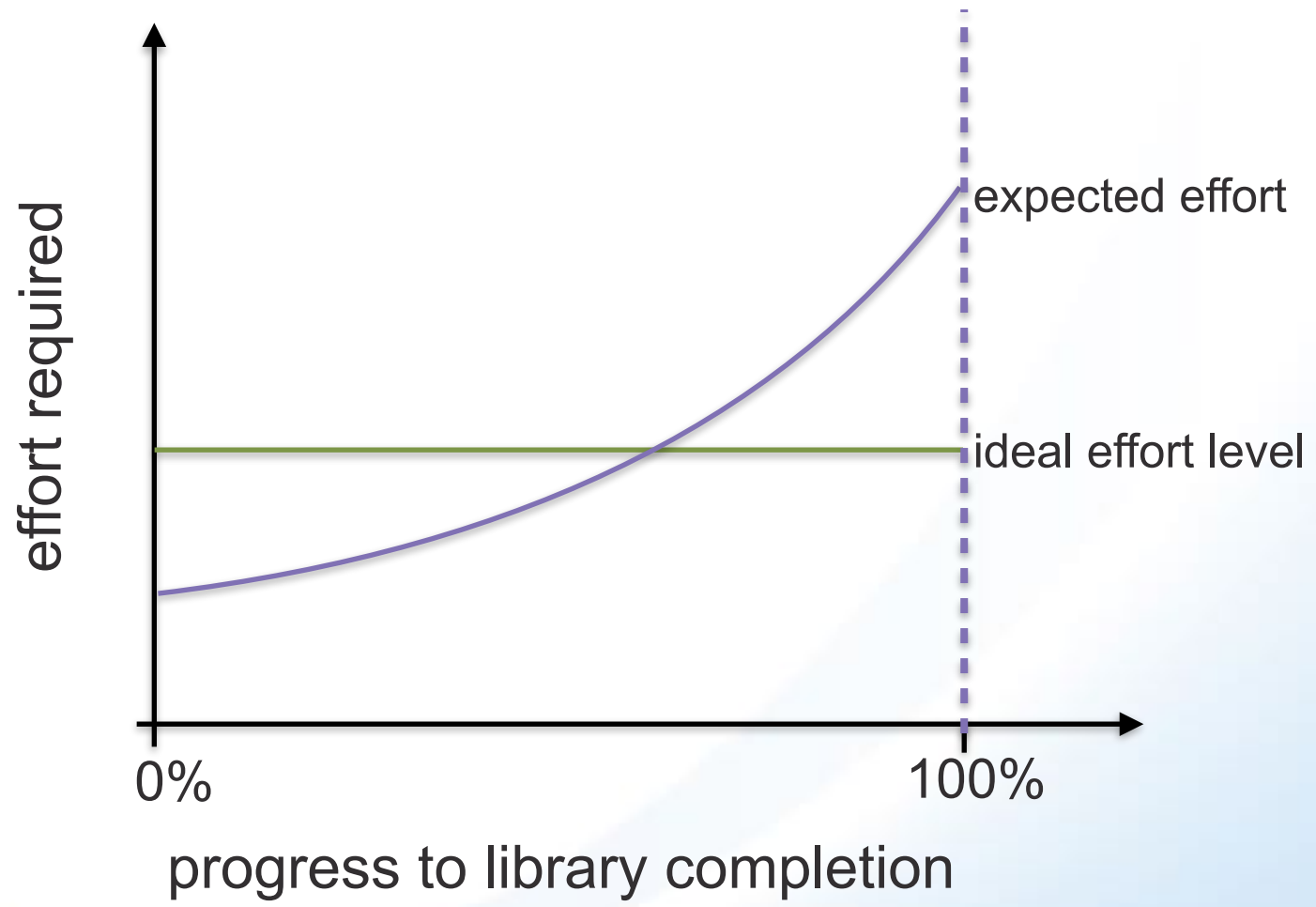
- Changes that happen very late in game
e.g. P(nu), FER, EPICS
- Things taking longer than expected
e.g. CIELO, TSL
- Bugs not getting fixed in timely manner
- GForge hiccups
- Communication issues (no CSEWG mailing list)

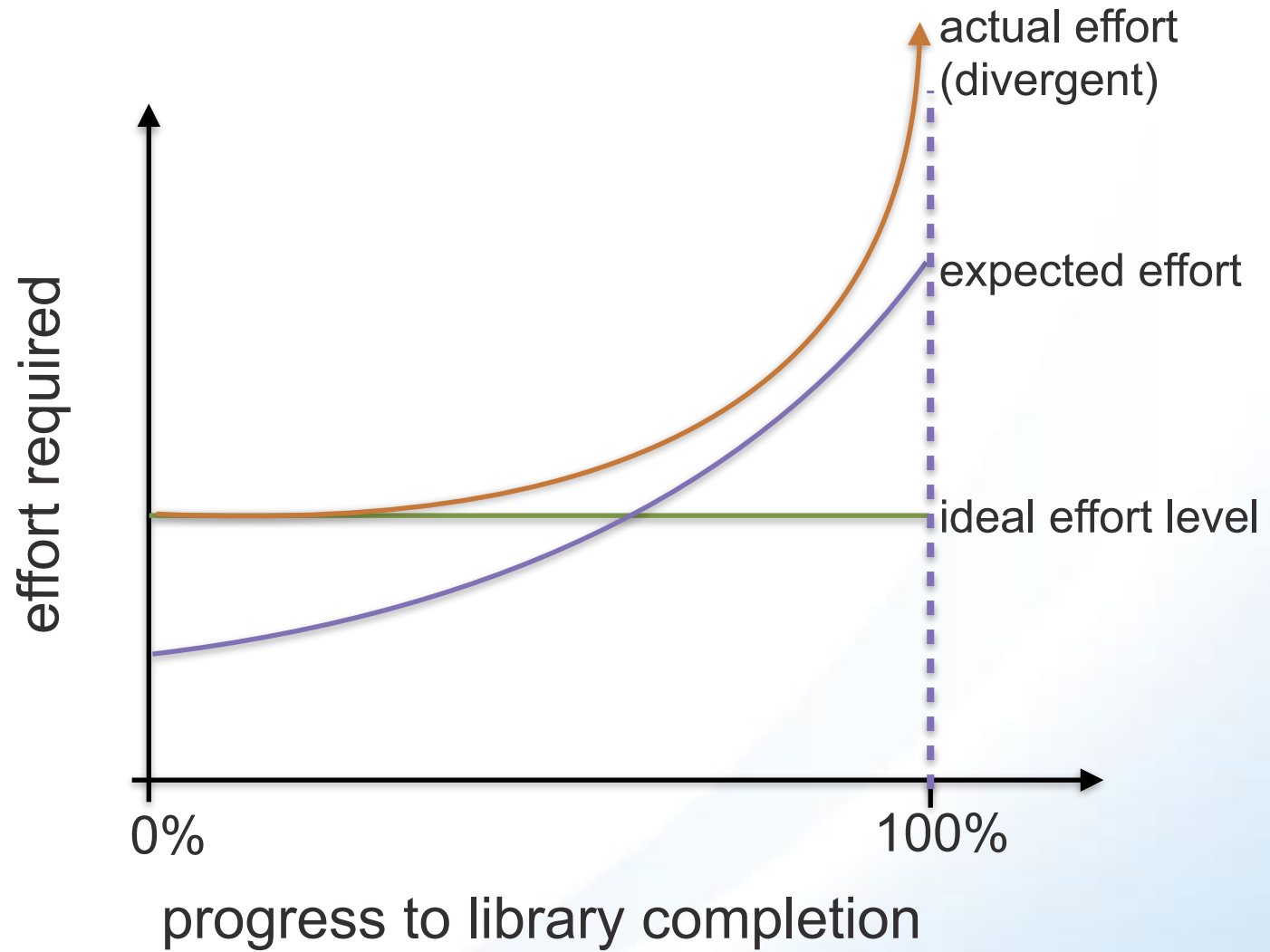
NNDC is working these problems now

Big issues encountered in ENDF/B-VIII.0 preparation

- Changes that happen very late in game
e.g. P(nu), FER, EPICS
- Things taking longer than expected
e.g. CIELO, TSL
- Bugs not getting fixed in timely manner
- GForge hiccups
- Communication issues (no CSEWG mailing list)

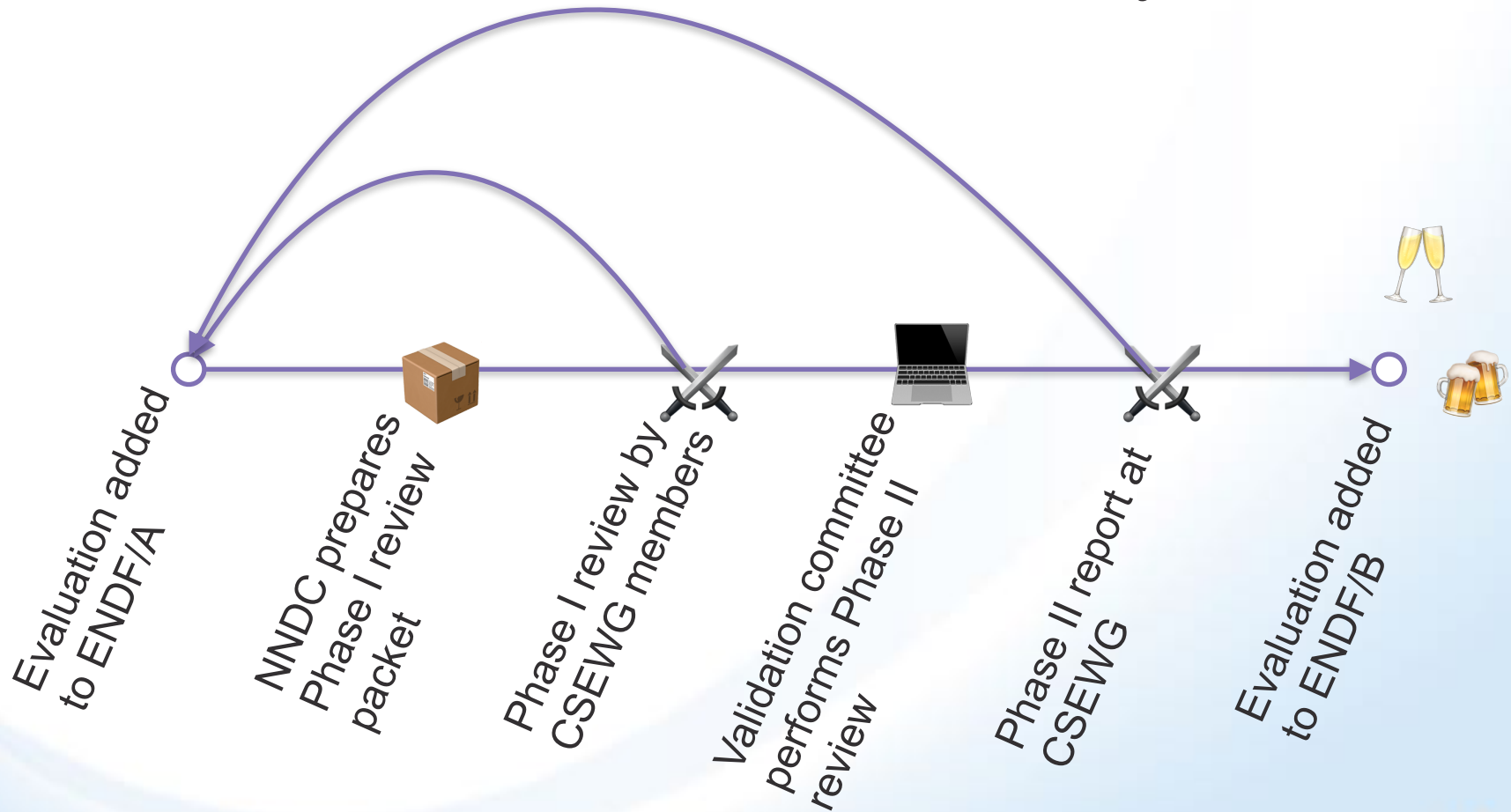






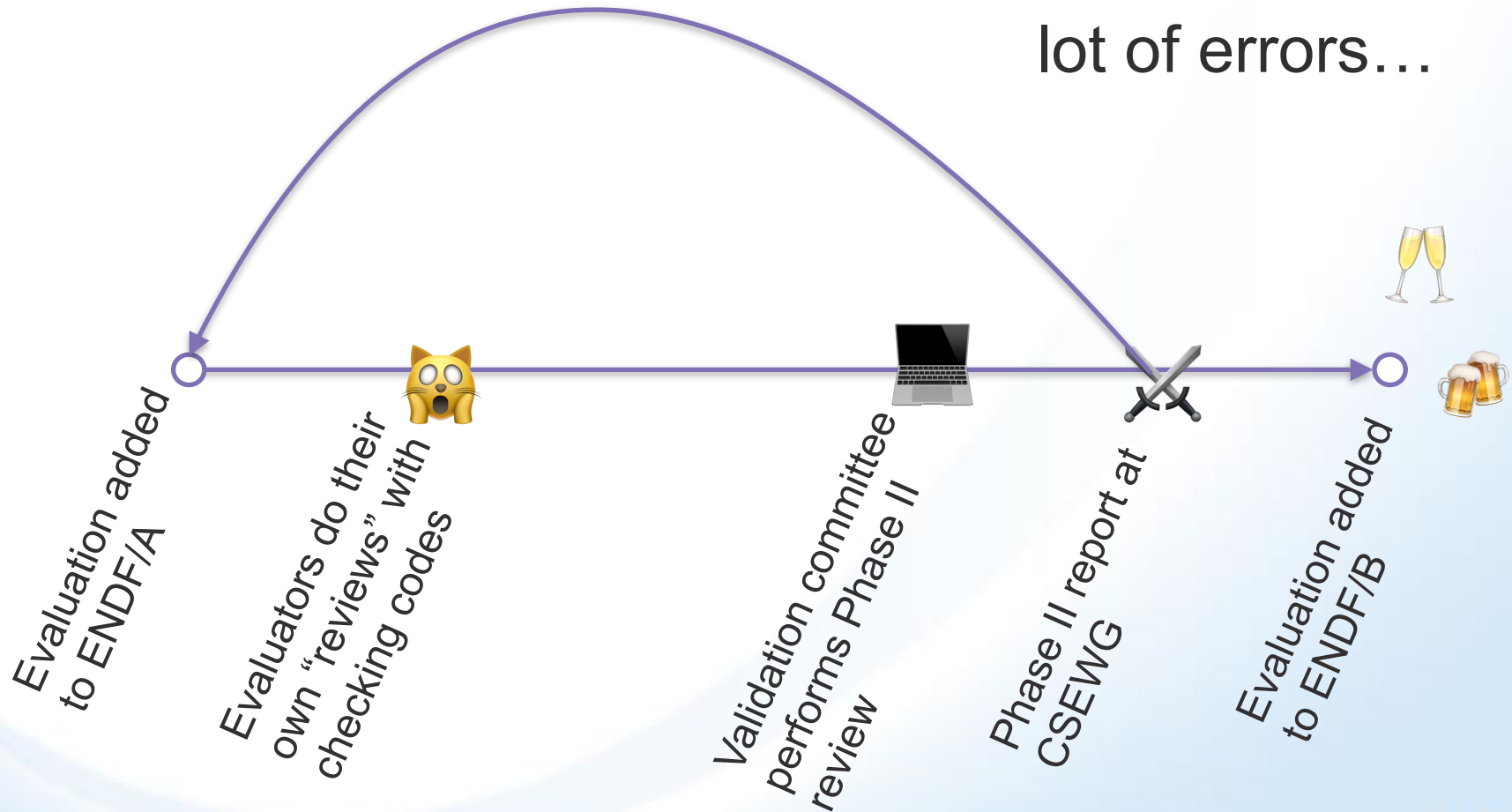
ENDF review process, pre-2000

very slow...



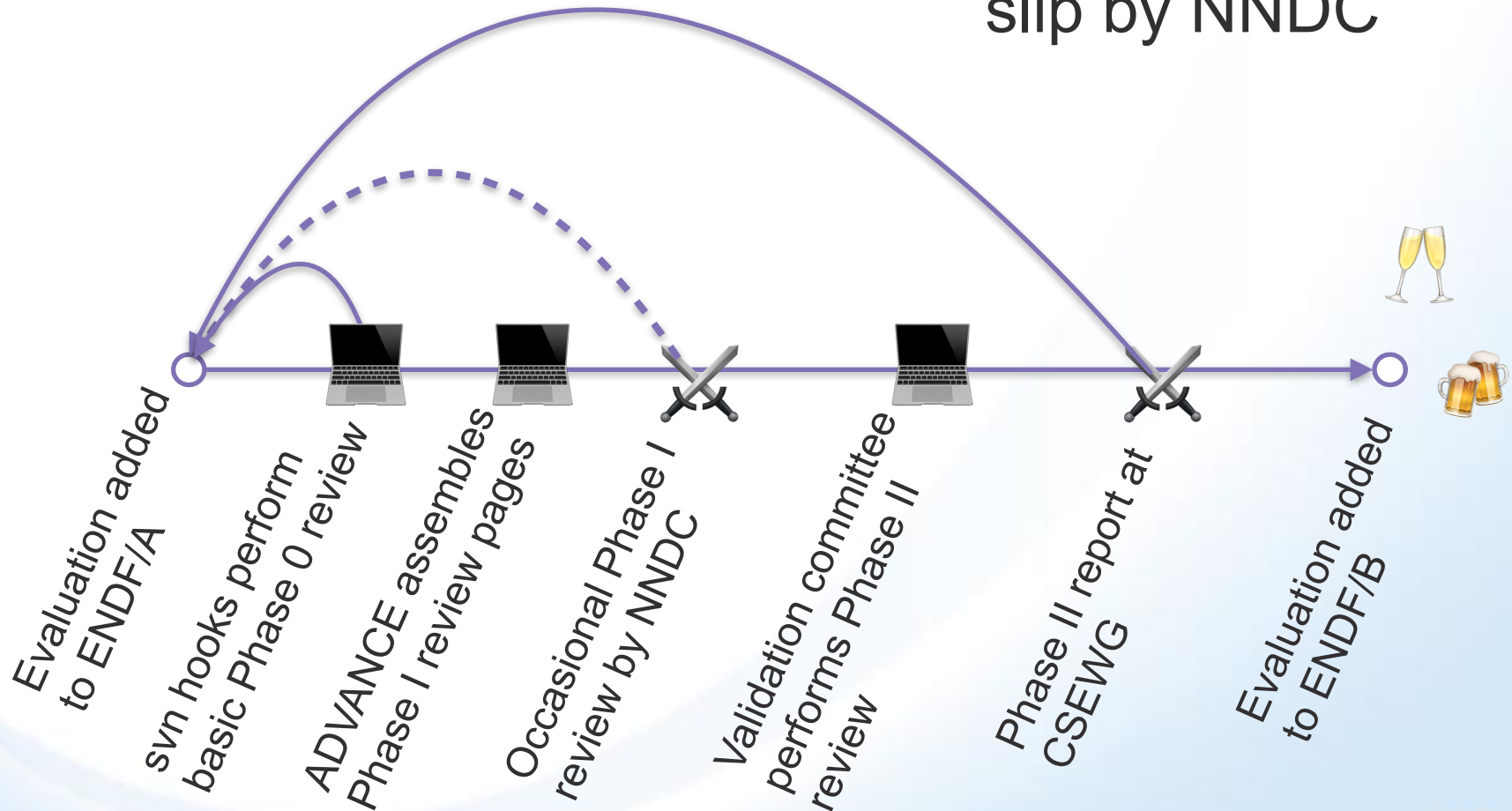
ENDF review process, for ENDF/B-VII.0

we missed a lot of errors...



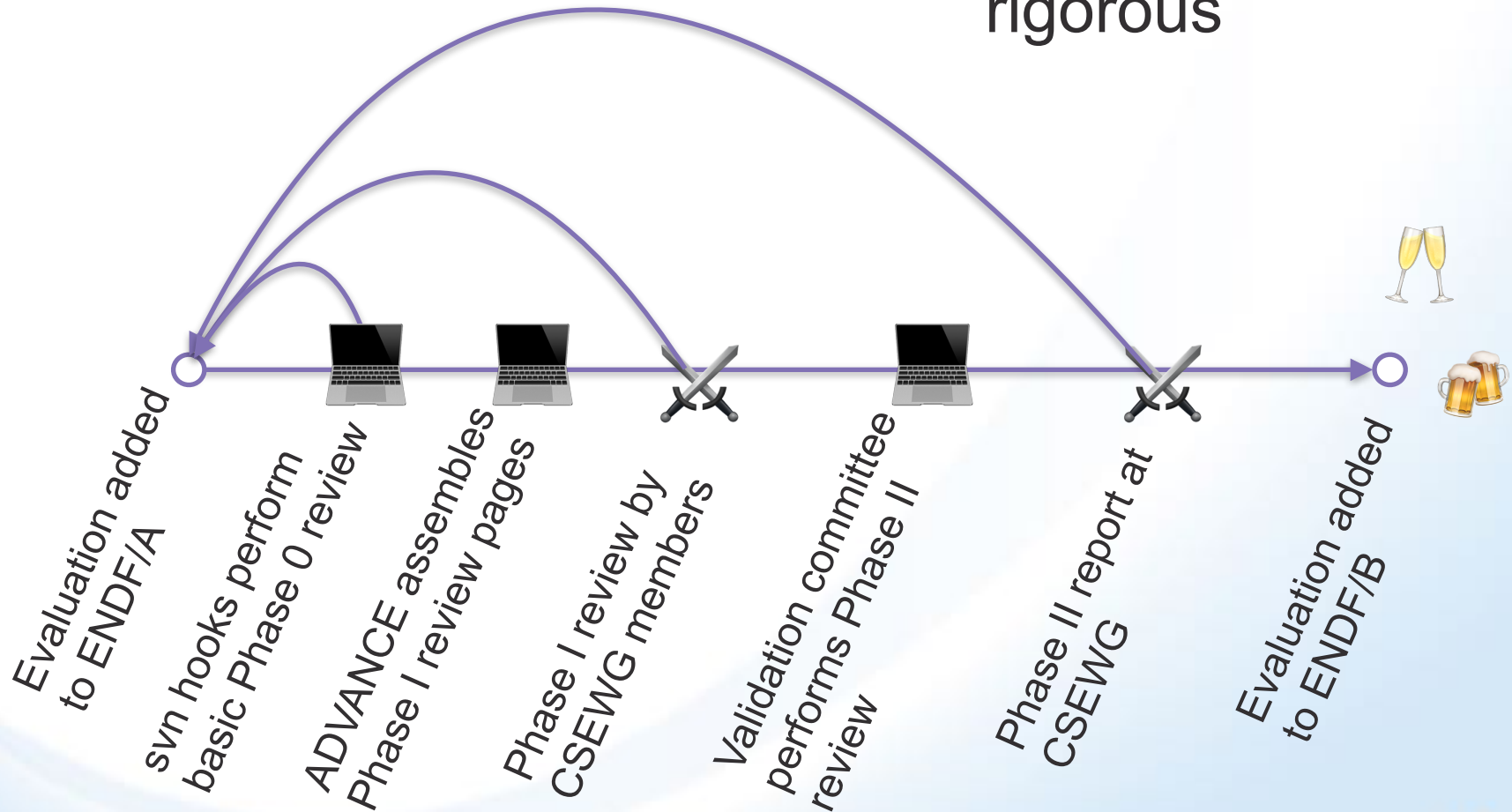
ENDF review process, ENDF/B-VIII.0

faster, but things slip by NNDC

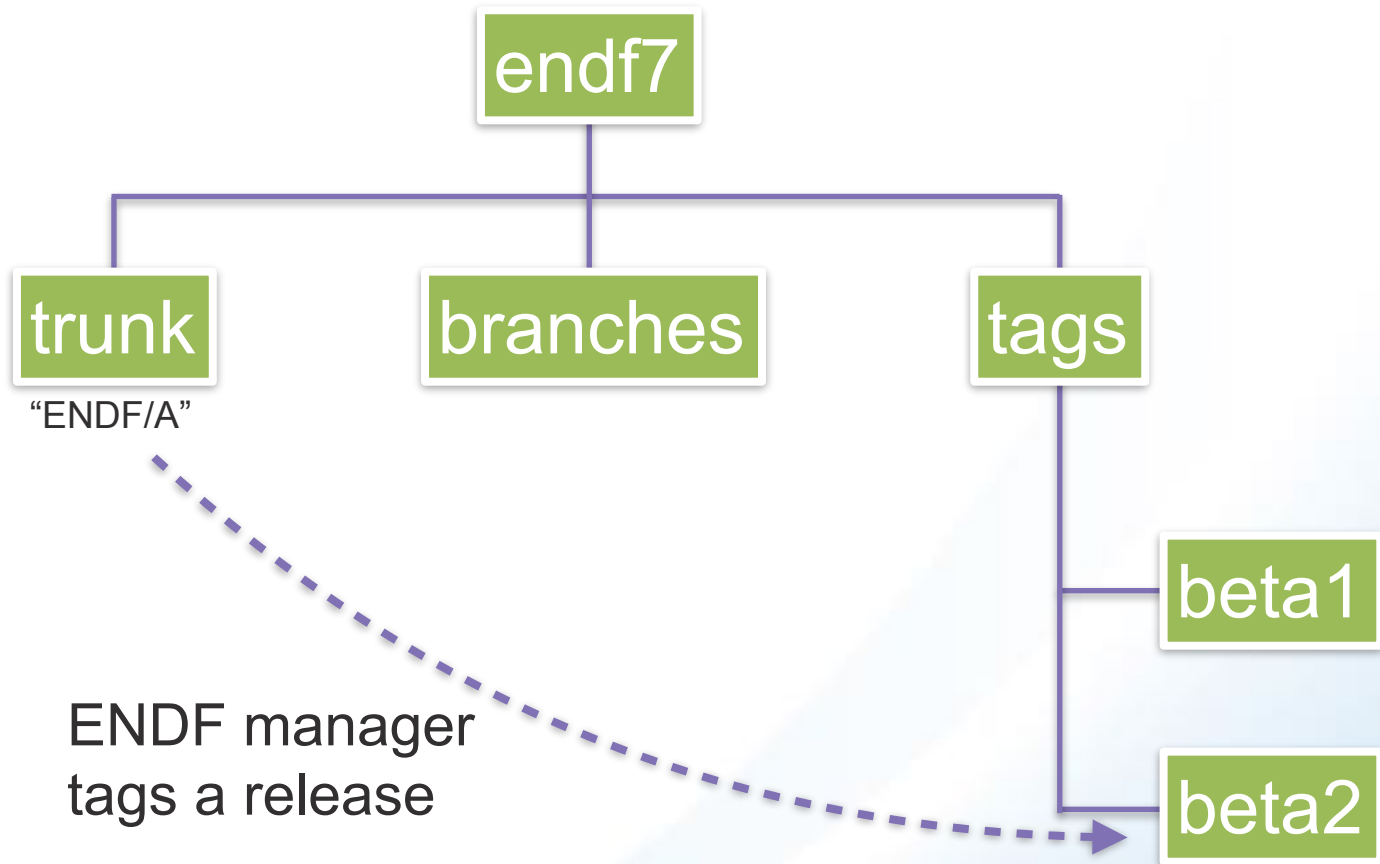


For ENDF/B-VIII.1, want to bring back formal reviews

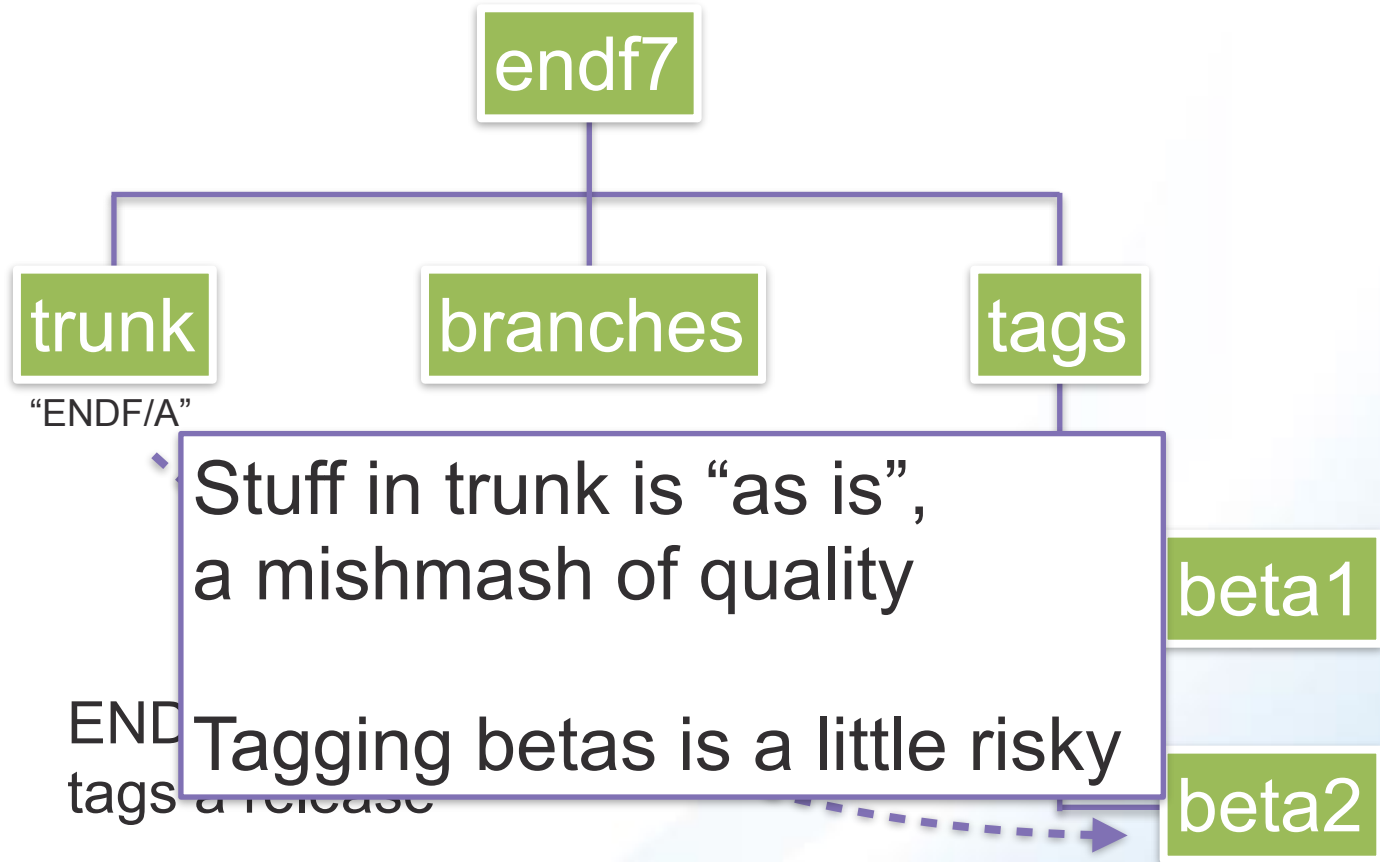
want fast AND rigorous



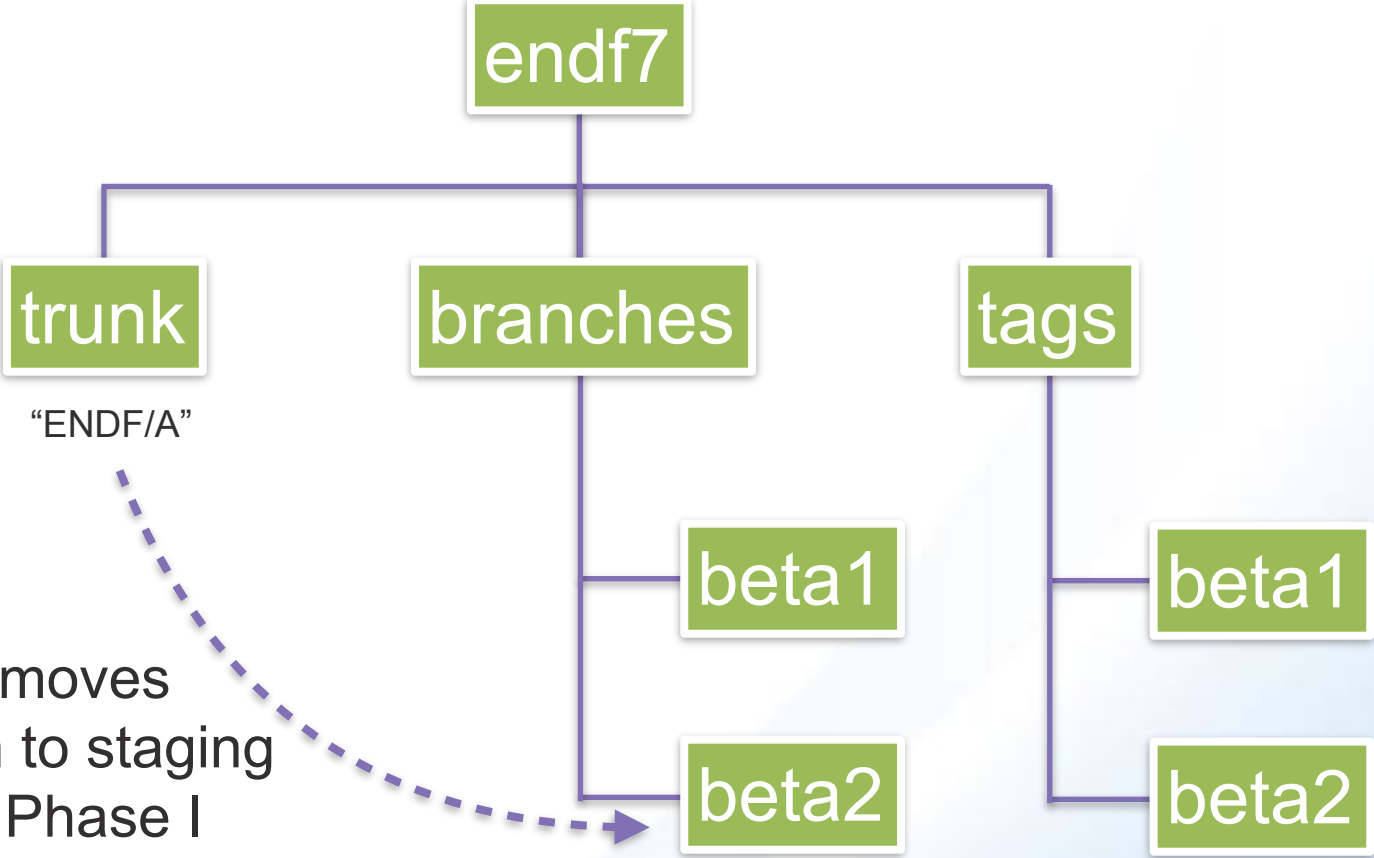
How we use subversion now



How we use subversion now



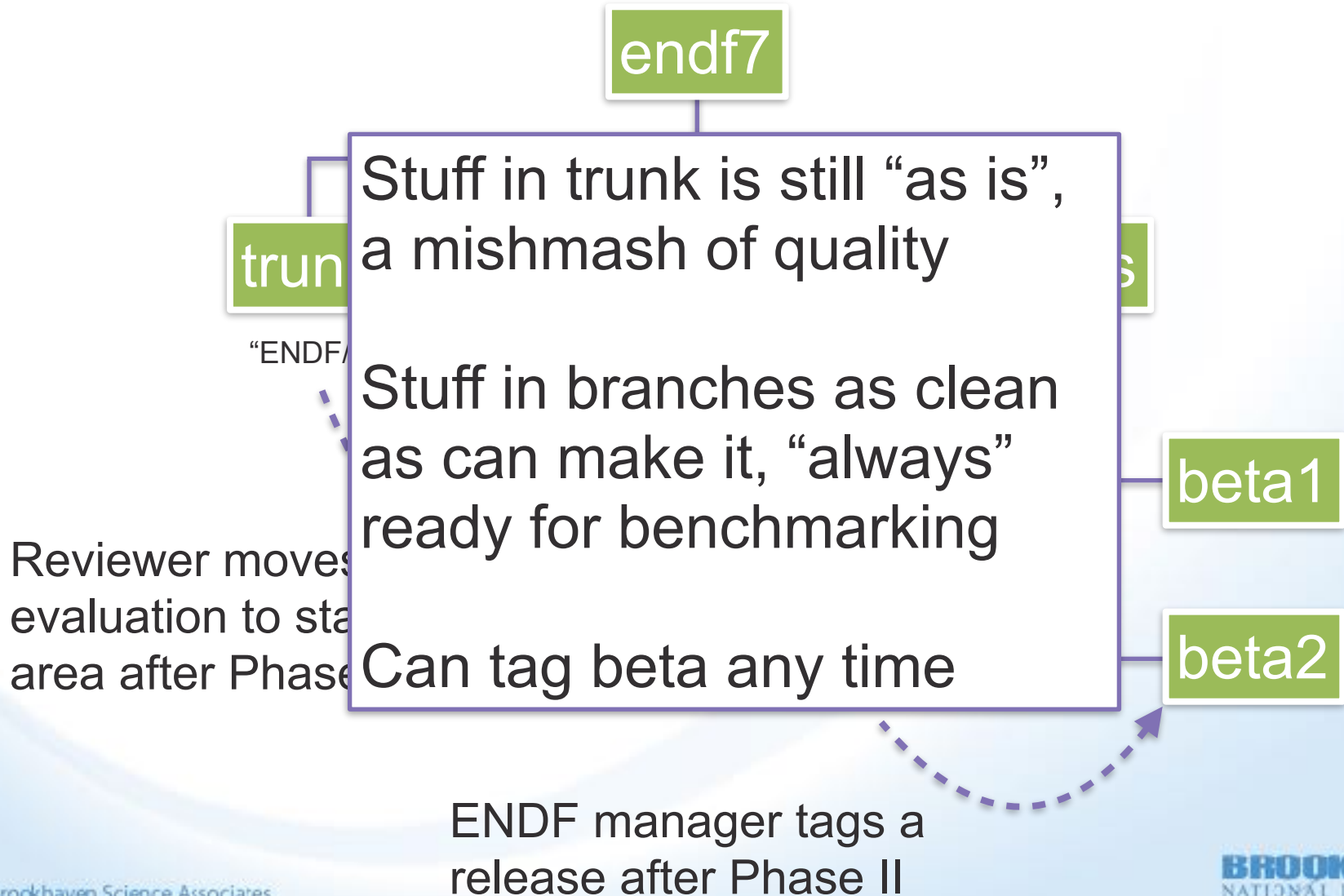
Let's tie subversion to review process



Reviewer moves evaluation to staging area after Phase I

ENDF manager tags a release after Phase II

Let's tie subversion to review process



Reviewer's job

Basically criteria from pre-ENDF/B-VII.0:

- **WARNINGS/ERRORS**

- Look at all code reports
- Work with evaluator to clear

- **Look at all plots, are they kosher?**

- xs vs. data
- heating/energy deposition/kerma
- covariance

If acceptable: copy from trunk to appropriate branch, use svn comments to provide CSEWG comments