



Open-source governance

The Biostat Open Source project in Novo Nordisk

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Disclaimer

Views and opinions expressed are those of the speakers and not necessarily Novo Nordisk



Governance policies for shared code



Examples of shared code in this context

Tools and utilities - not trial specific programs

Programs to create mock end-of-text
(shells) based on reference TFLs

**Mock shell
generator**

SAS macros for TFL
production, which can
be copied to a trial and
customized

Excel file for TFL metadata
(titles, footnotes etc) and
allocating programmers and
reviewers

Place

**SAS template
TFL programs**

UNIX script of documenting
programming and review

Trace

**R
packages**

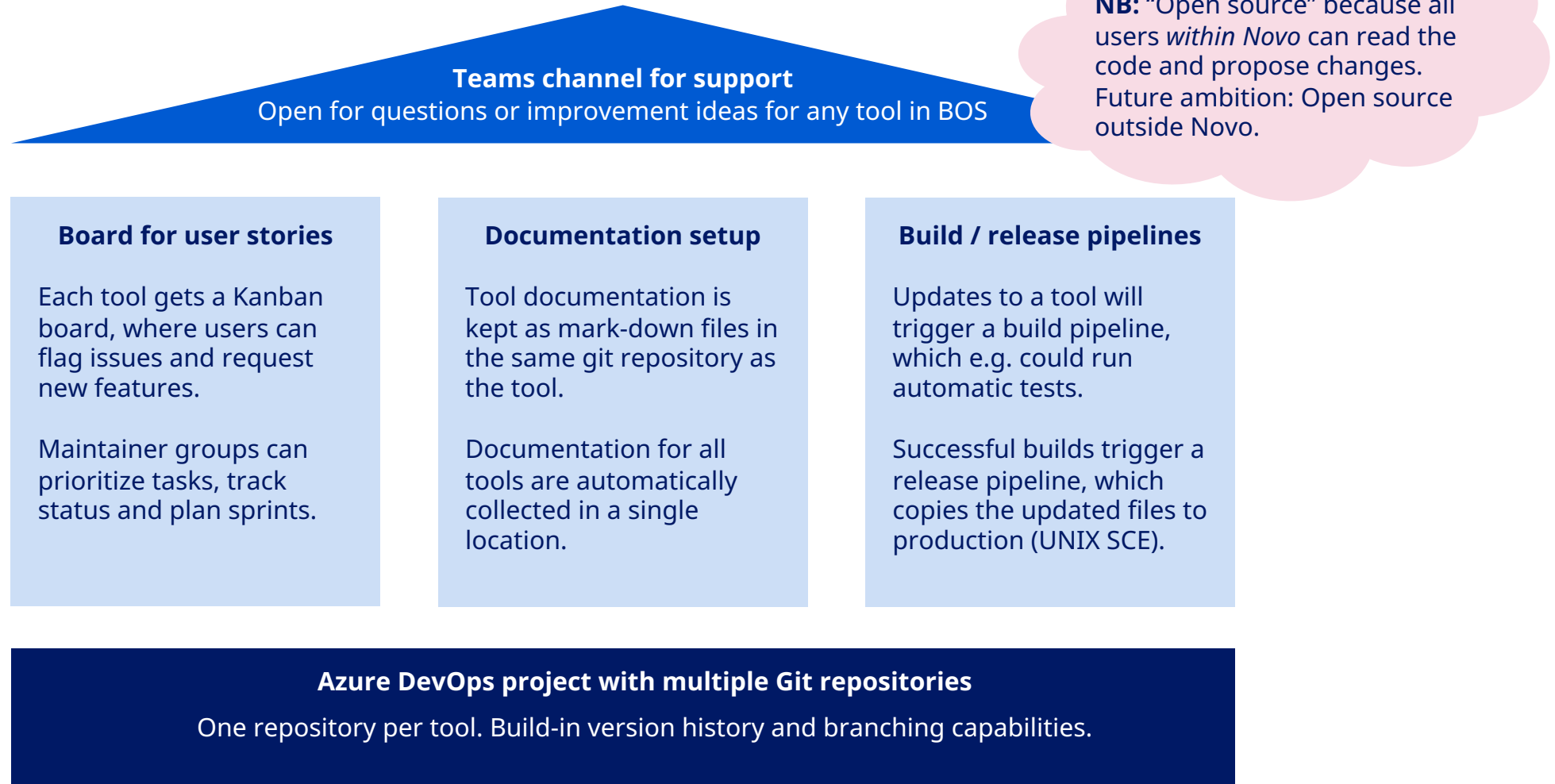
R packages e.g. for
creating TFLs on trials

**Fill TFL
header**

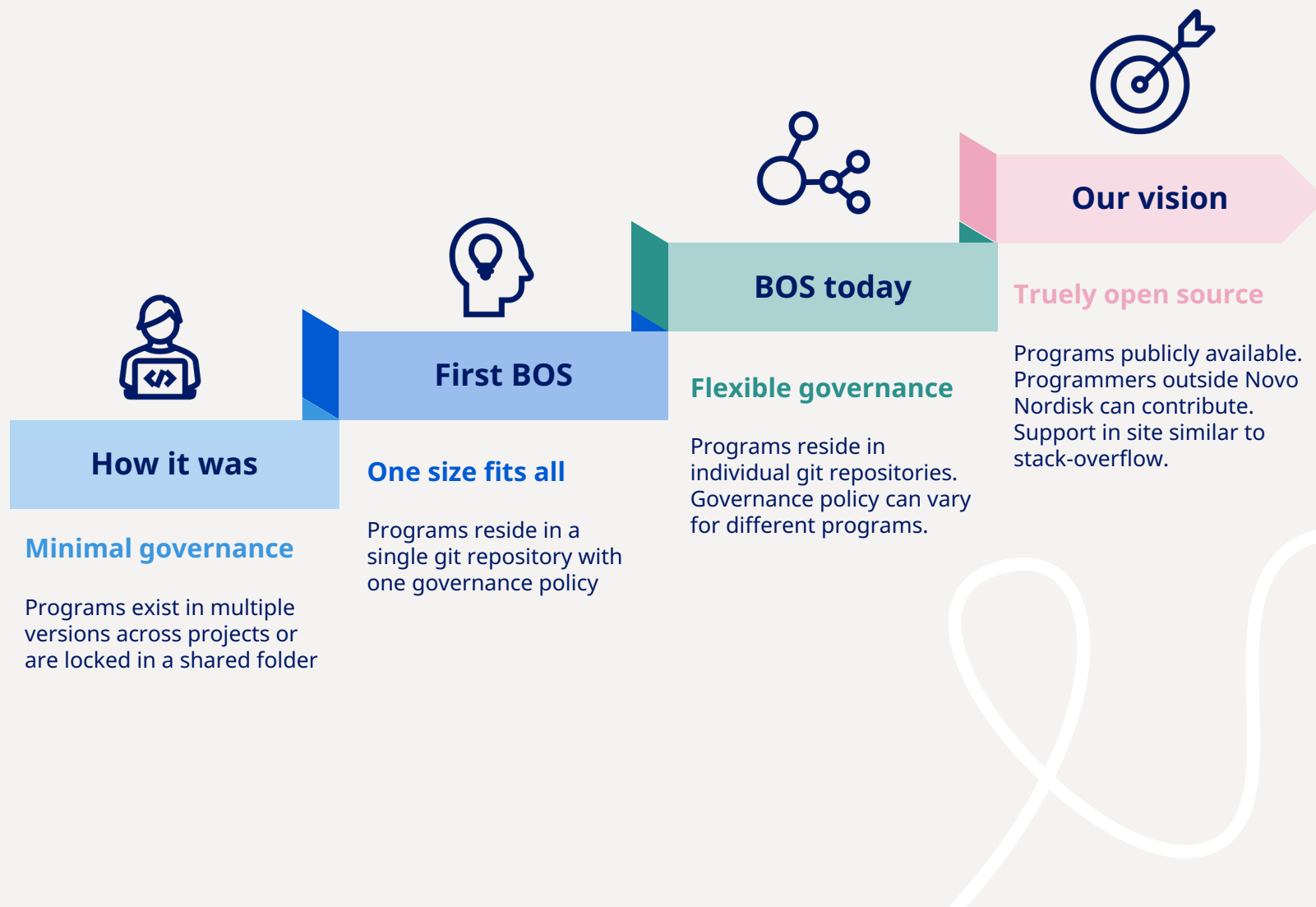
Perl script under
development.
Original developer
left the company

Biostat open source (BOS) in Novo Nordisk:

Governing programs shared across projects in biostatistics



Biostat Open Source: Past, present, future



No straight road to success

Step 1

Early version of BOS created to develop replacement of excel programming plan.

Step 2

Scope extended to include all tools shared across projects in biostatistics.

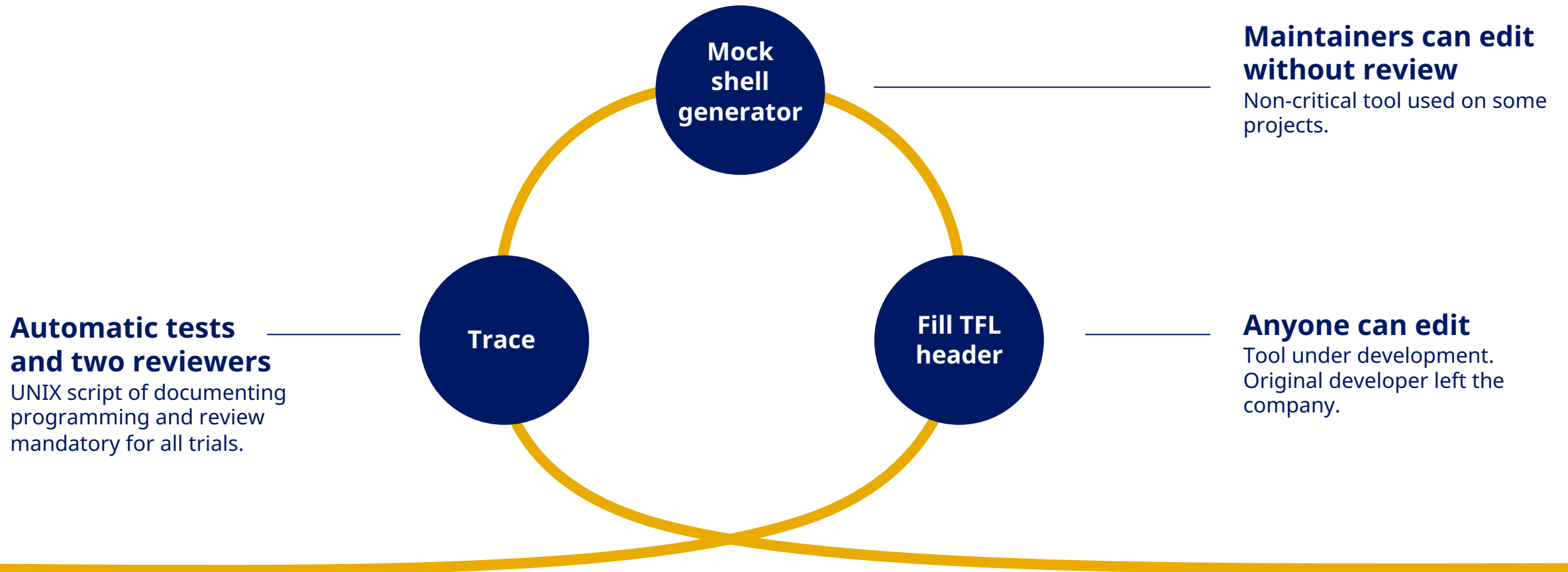
Step 3

Tools migrated to from one to multiple repositories to facilitate different governance policies.

Step 4

Documentation moved from wiki to tool repositories, but automatically collected to a single location.

Three tools: Three governance policies



How to go truly open source?



Inferior: Publish copy of code

Code in repository on internal server, but copied to a public location. External contributions difficult.



Superior: Push to public repository

Code in public repository, e.g. on GitHub.
Pull requests from internals and externals handled the same way. Invites to external contributions.



