

IMMERSE “share a config”

Planned scheme how to
provide¹ or share² a non-ref³ NEMO configuration⁴

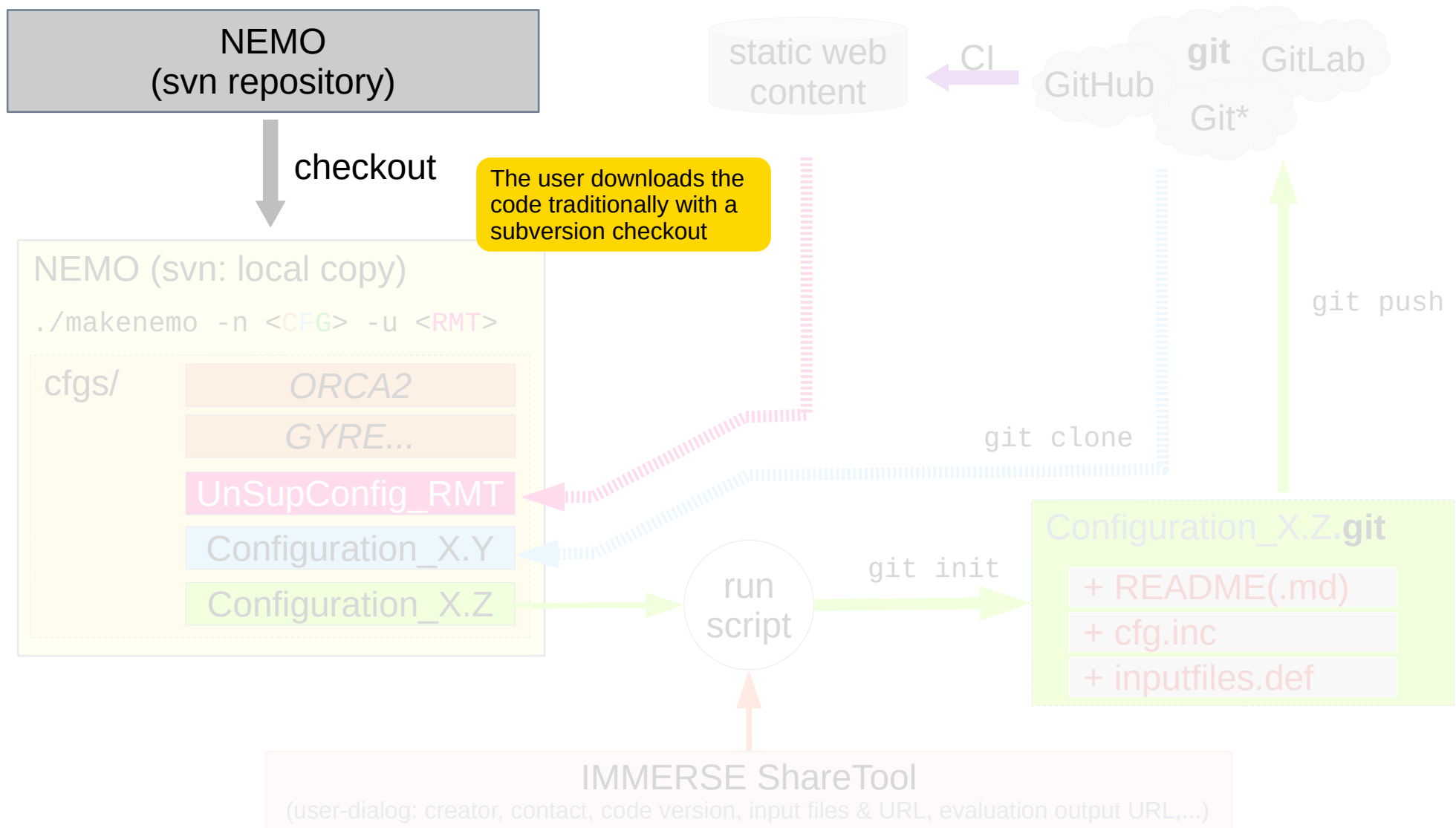
Markus Scheinert (mscheinert@geomar.de)
GEOMAR, Kiel | 2019-06-25

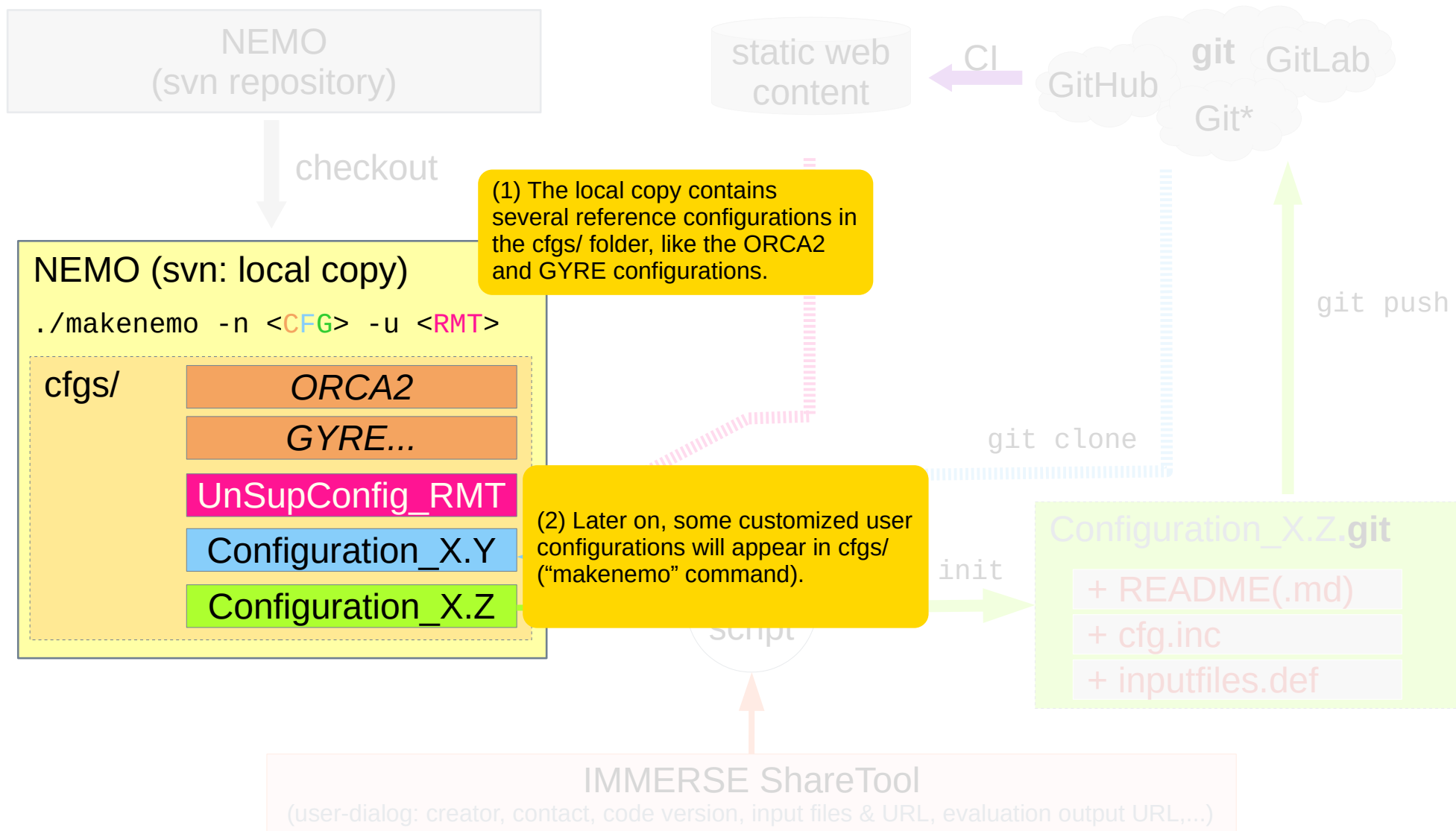
¹ Provide the details of a configuration to other users

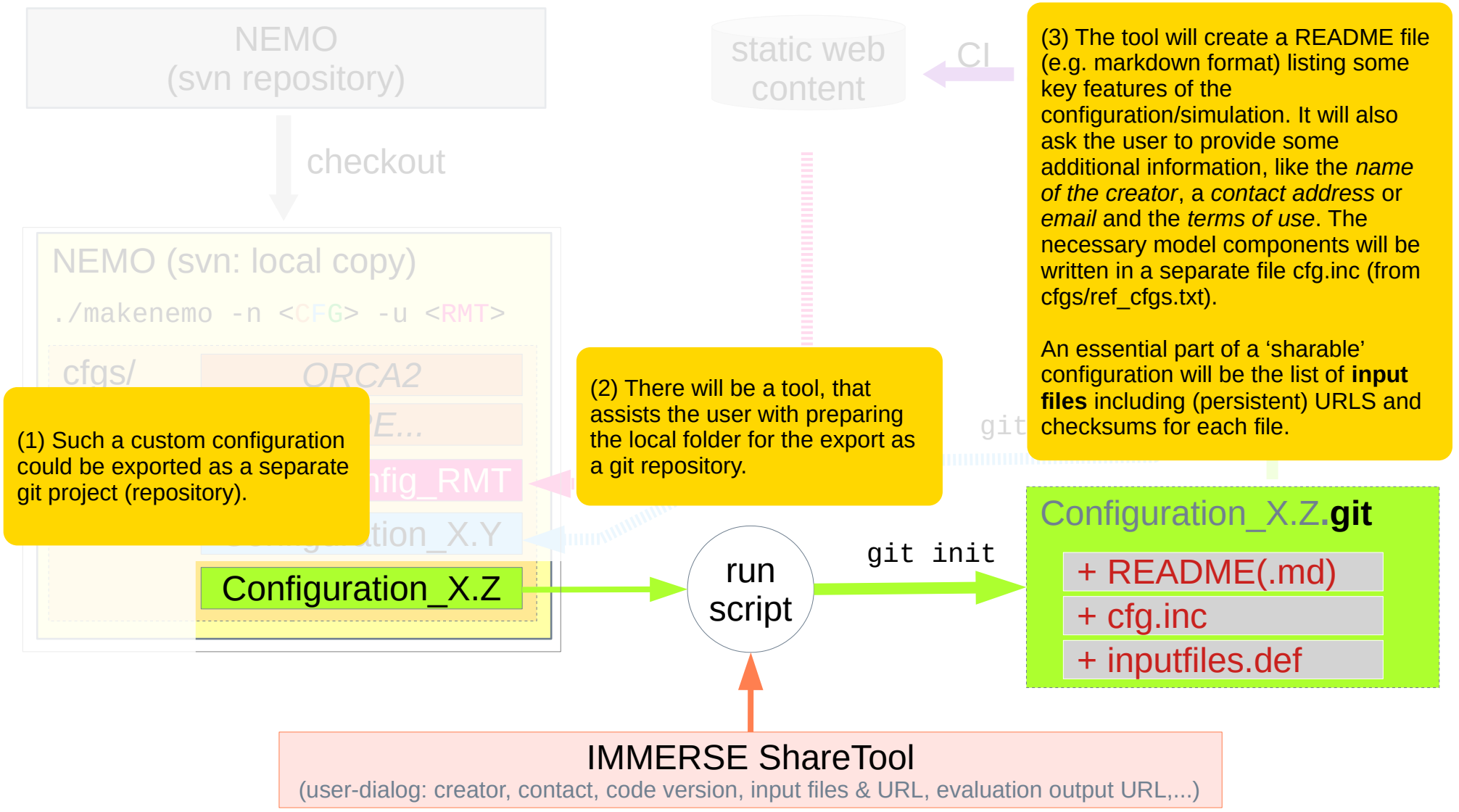
² Collaborative development of a configuration

³ A configuration that is not shipped with the NEMO source code package

⁴ A “sharable configuration” always consists of: definite **reference to the code base**, **modified code**, list of model **components** and **cpp-keys** as well as **namelists** and reliable URLs to **input files** (incl. a checksum)







NEMO
(svn repository)

checkout

NEMO (svn: local copy)

```
./makenemo -n <CFG> -u <RMT>
```

cfgs/ ORCA2
E...
config_RMT
...tion_X.Y

Configuration_X.Z

(1) Such a custom configuration could be exported as a separate git project (repository).

(2) There will be a tool, that assists the user with preparing the local folder for the export as a git repository.

(3) The tool will create a README file (e.g. markdown format) listing some key features of the configuration/simulation. It will also ask the user to provide some additional information, like the *name of the creator*, a *contact address or email* and the *terms of use*. The necessary model components will be written in a separate file `cfg.inc` (from `cfgs/ref_cfgs.txt`).

An essential part of a 'sharable' configuration will be the list of **input files** including (persistent) URLs and checksums for each file.

static web content

CI

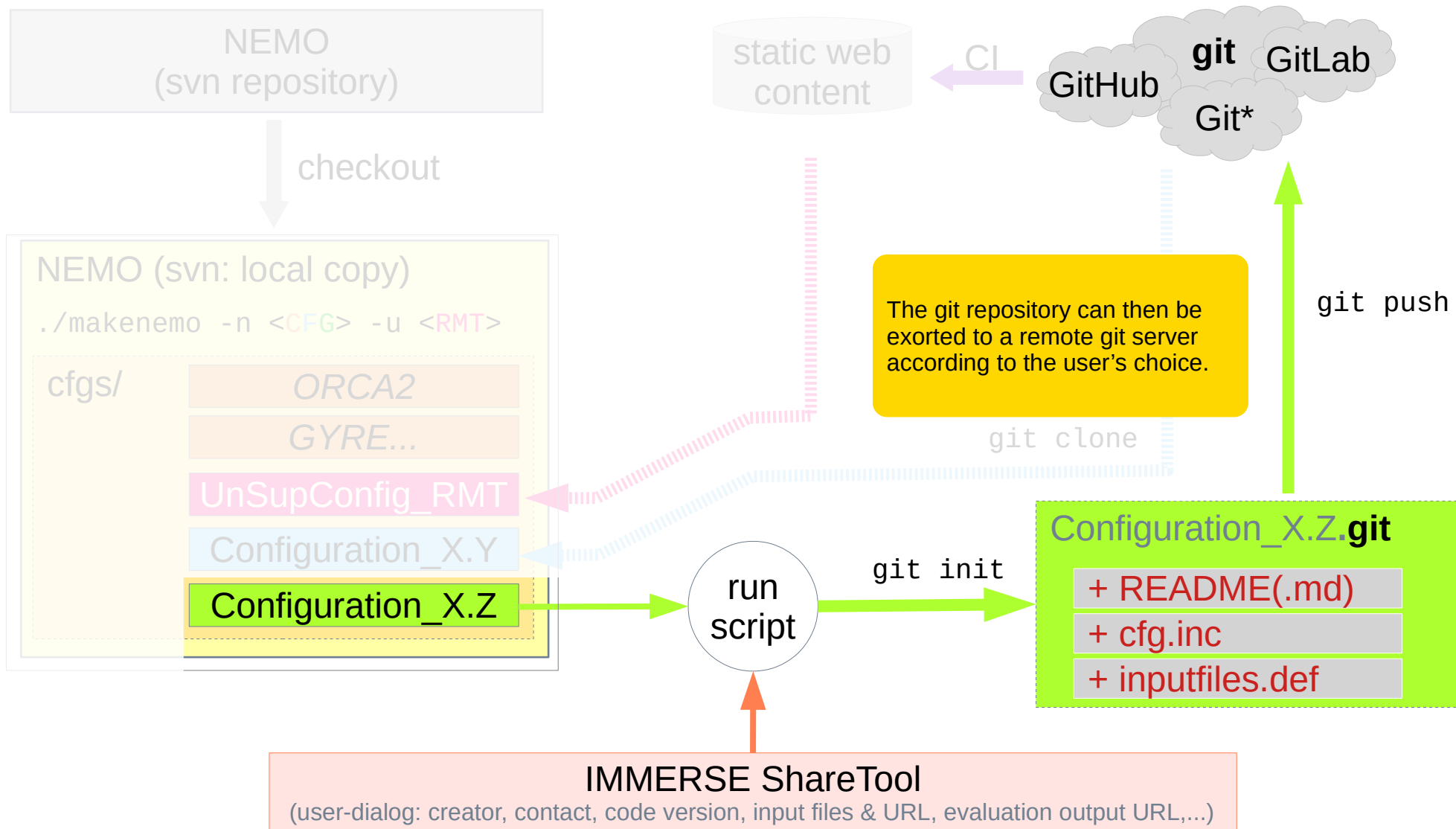
run script

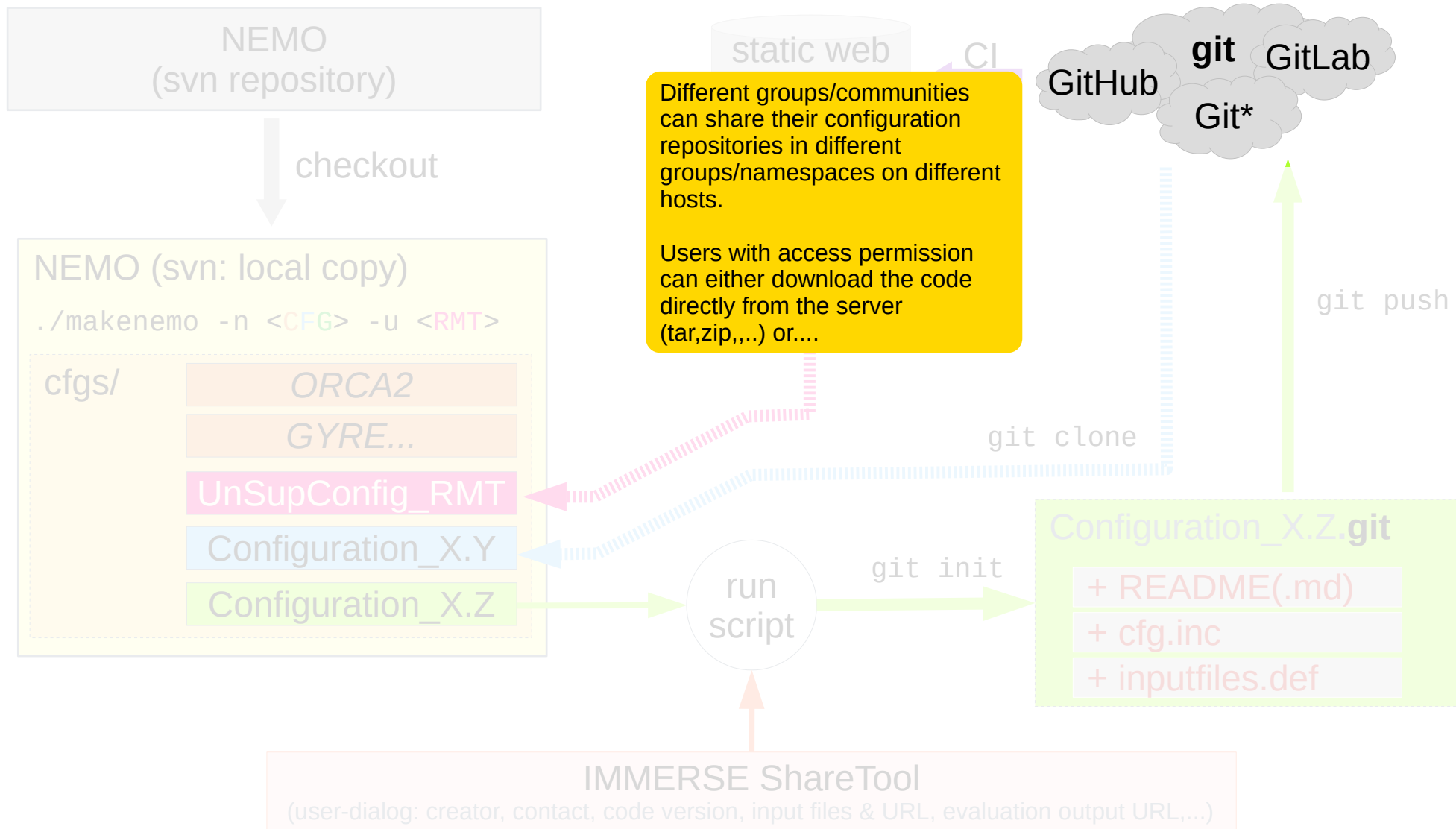
git init

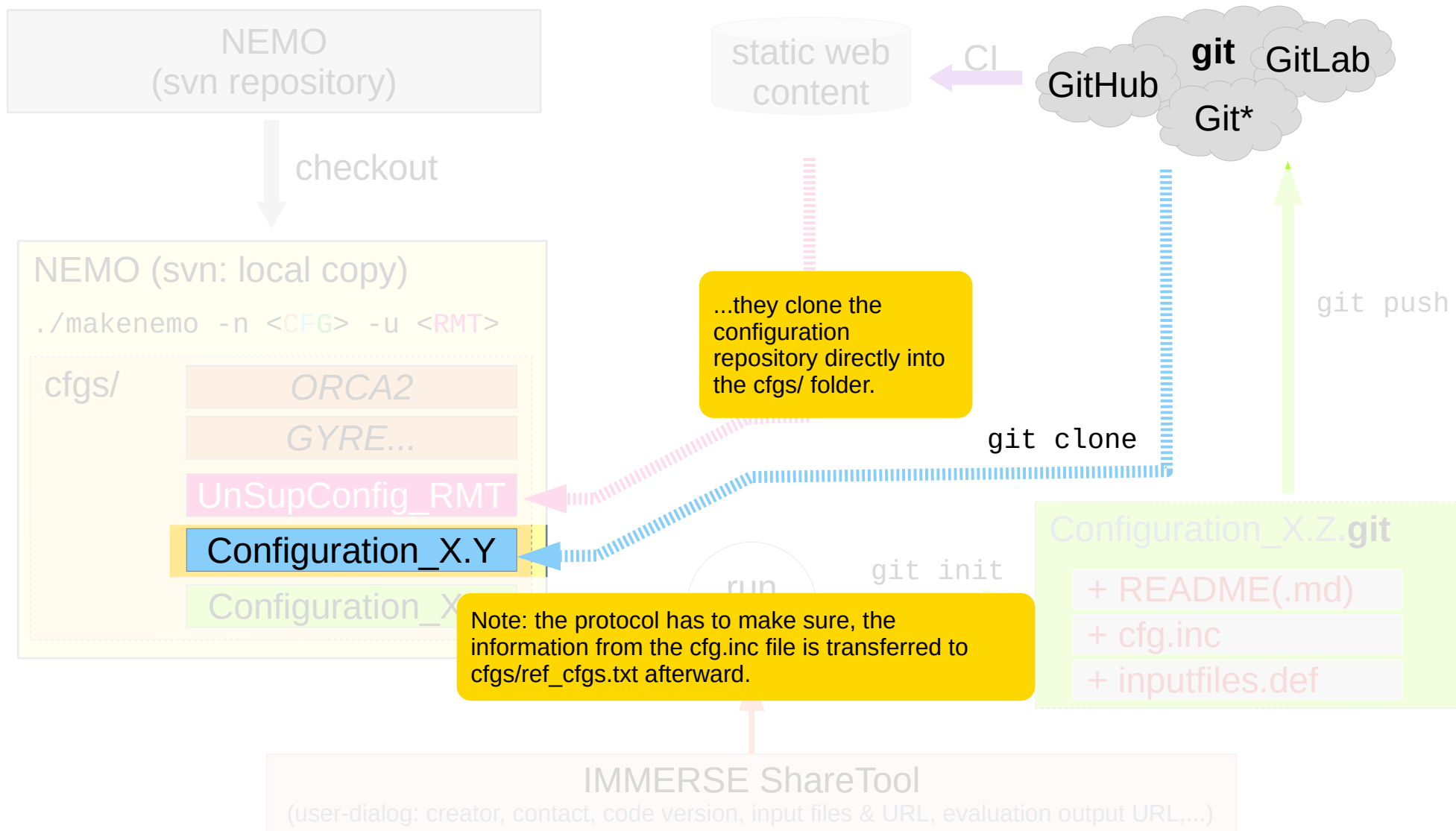
Configuration_X.Z.git

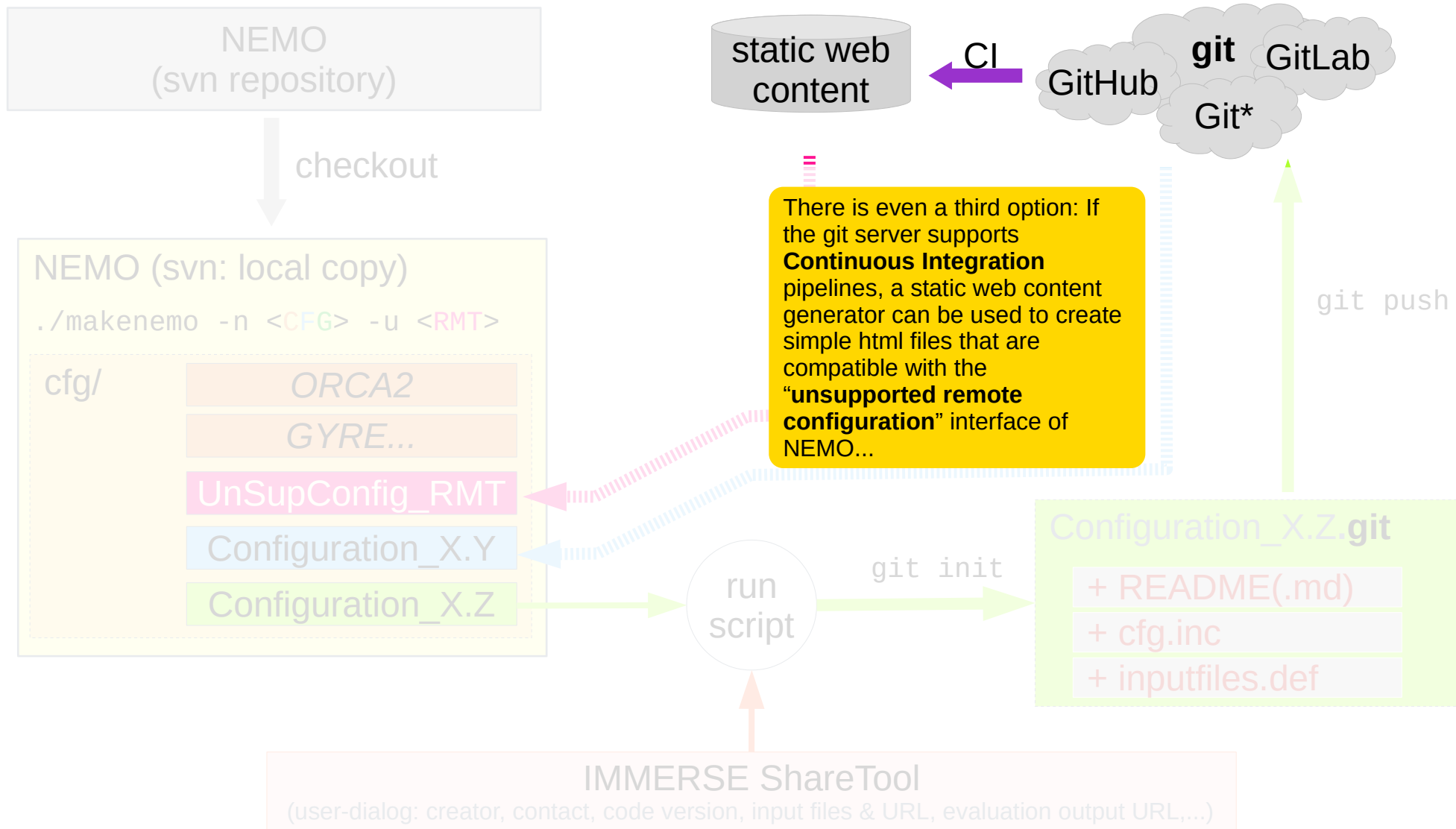
- + README(.md)
- + cfg.inc
- + inputfiles.def

IMMERSE ShareTool
(user-dialog: creator, contact, code version, input files & URL, evaluation output URL,...)









Unfortunately, the remote URL has to be registered first in the `rmt_cfgs.txt` file in the `tests/` folder.

An enhancement of the `makenemo` script could be to allow an URL as an argument for the `-u` option. The model components then could be retrieved from the remote `cfg.inc` file.

```
./makenemo -n <CFG> -u <RMT>
```

cfgs/

ORCA2

GYRE...

UnSupConfig_RMT

Configuration_X.Y

Configuration_X.Z

static web content

CI

GitHub

git
Git*

GitLab

git push

git clone

git init

run script

Configuration_X.Z.git

+ README(.md)

+ cfg.inc

+ inputfiles.def

IMMERSE ShareTool

(user-dialog: creator, contact, code version, input files & URL, evaluation output URL,...)

