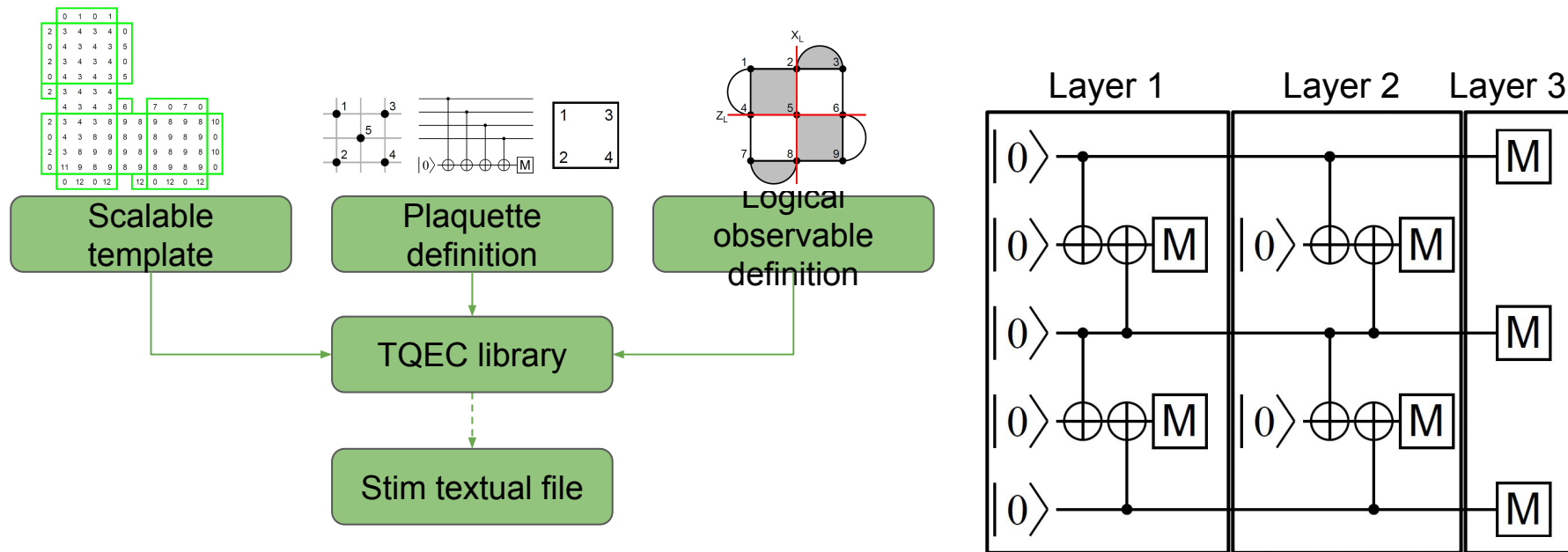


TQEC Python backend

Current state & planned evolutions

Current state – How to use the library



Recent developments

1. [Pytest setup #66 / Add tests to the library #130](#)
2. [Add function to display a TemplateOrchestrator as a svg file #70](#)
3. [Pauli syndrome measurement plaquette factorisation #175](#)
4. [Functional style plaquette #203](#)
5. [Setup Sphinx documentation #211](#)

Upcoming changes

- [Observables #213](#): improve the API to specify observables.
- [WIP: Add detector automation but without anti-commute grouping #227](#): automatic computation of detectors.
- [Fix reset and measurement gates being wrongly applied when moving #202](#): necessary improvement to implement logical qubit movement.

Newcomer? Want to code?

- Improve the documentation: [Create TQEC readthedocs site #109](#)
- Write down tests: [Implement more unit-tests for the backend #229](#)
- Have a look at the [Good first issue](#) tag.
- Propose ideas on GitHub: <https://github.com/QCHackers/tqec/issues>

If any question:

- ask now,
- ask on GitHub (in the [Discussion panel](#), pingging at least @nelimee),
- ask on the [Google group](#),
- ask me by mail at adrien.suau@qraftware.com.