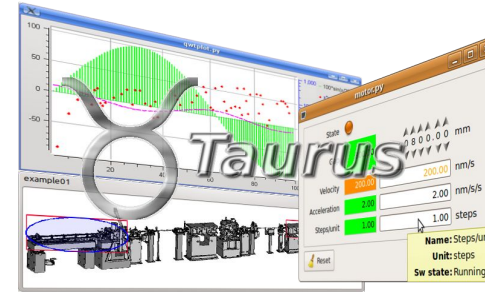




TAURUS Workshop, 12-13 May 2026



# Taurus developers practical session

Oriol Vallcorba on behalf of all Taurus team



# Practical session

Contributing to Taurus

Taurus code map  
Practical session format  
Resources



# Taurus code map

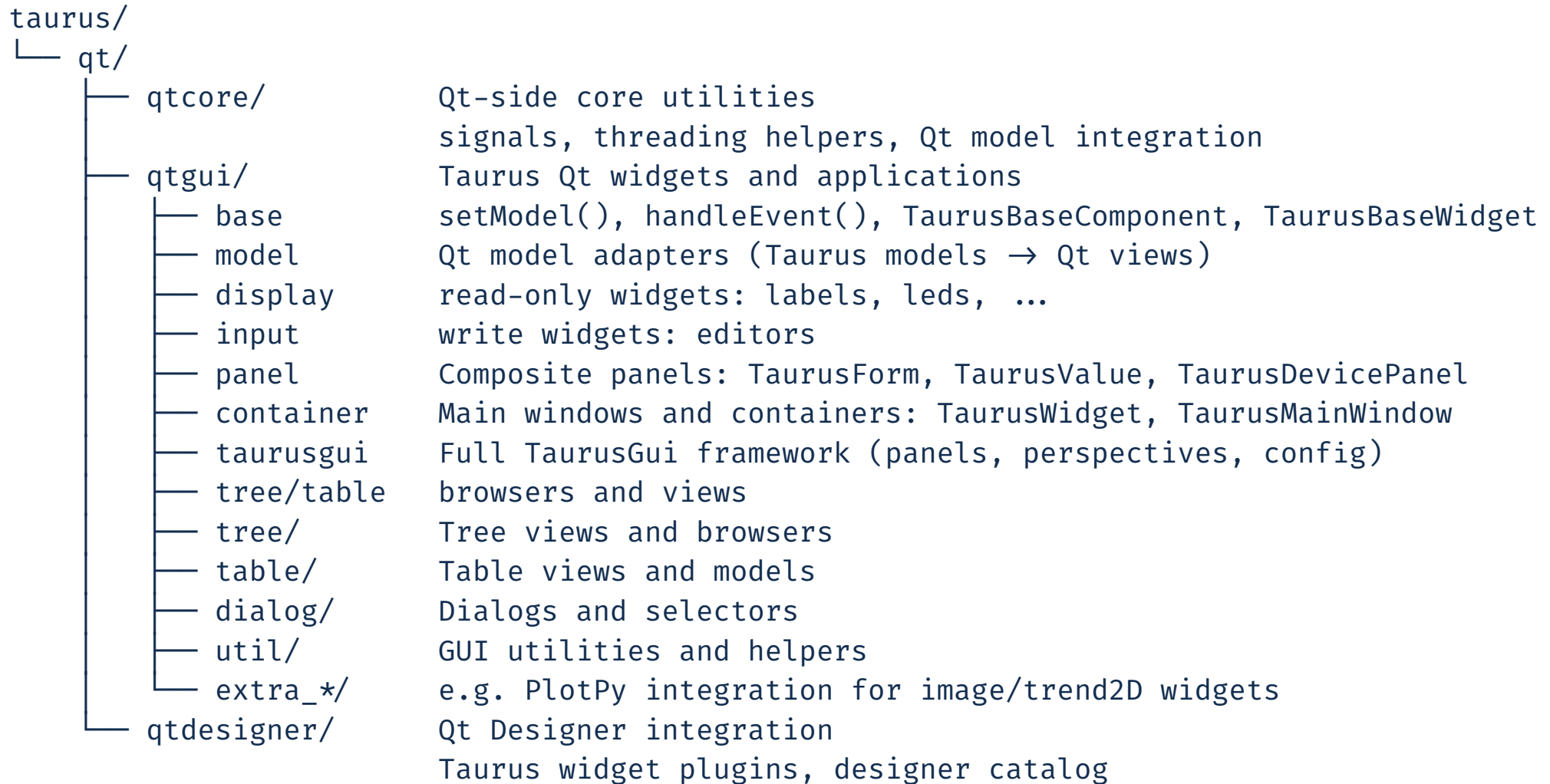
taurus/	
├── core/	Model layer, factories, events, polling, schemes
├── qt/	Qt widgets, panels, TaurusGui, model/view bridge
├── cli/	taurus command-line interface
├── external/	Qt compatibility / abstraction layer
├── tests/	test suite
├── docs/	documentation
└── examples/	examples and snippets

# Taurus code map

taurus/	
└─ core/	Taurus model layer
├─ models	TaurusModel, Attribute, Device, Authority
├─ factories	object creation, cache, plugins
├─ events	listeners, polling timers
└─ schemes	tango, epics, eval, res, ...

taurusmodel.py	Base model abstraction
taurusauthority.py	Control-system authority
taurusdevice.py	Device abstraction
taurusattribute.py	Attribute/value abstraction
taurusfactory.py	Object creation and caching
taurusmanager.py	Plugin discovery and registry
tauruslistener.py	Listener/event callback API
tauruspollingtimer.py	Polling infrastructure

# Taurus code map



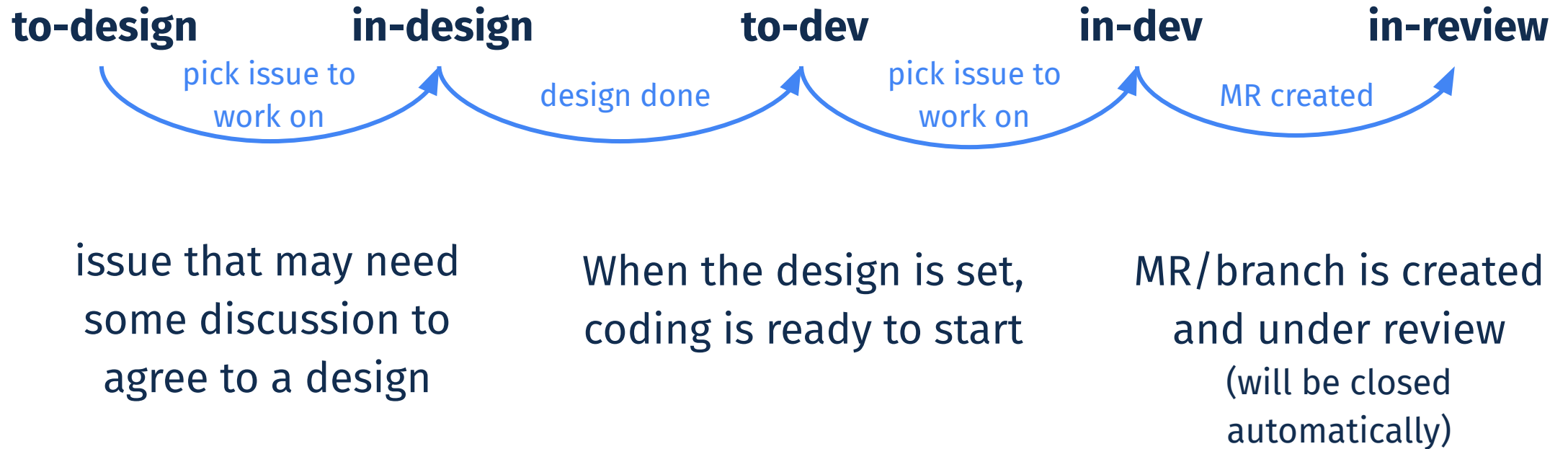
# Practical session format

- Prepare a **development environment**: Easiest way may be a conda environment with editable installation of Taurus (see installing taurus section)
- Create **small working groups**. Ideally **2 people** with different degree of expertise in Taurus project.
- The idea is that the groups work on specific issues from the **Taurus issue backlog** or work in **new ideas or needs** that appeared during yesterday's session of the workshop
- Most issues contain **labels** giving hints of difficulty, size, impact and area of Taurus code affected

# Practical session format

Development board: <https://gitlab.com/taurus-org/taurus/-/boards/11299406>

Contain pre-selected issues in different **states**. The flow is:



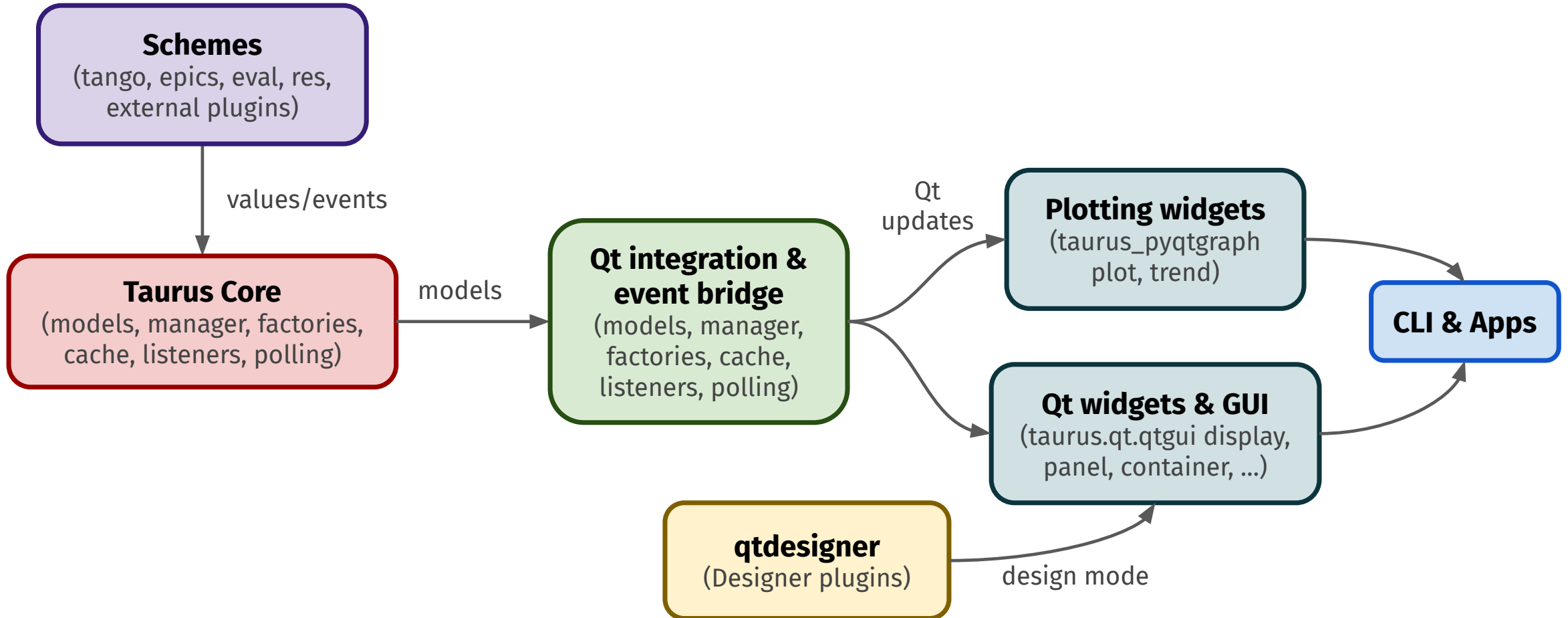
# Practical session format

- There are user-focused tutorials in the taurus-training repository <https://gitlab.com/taurus-org/taurus-training>. Tutorials can be followed in situ and ask questions to participants.
- Apply what you learned in the workshop and from the tutorials to create a GUI for a real use case you may have. Or solve problems in GUIs in development
- Work on small developments:
  - Improve documentation. Unify taurus trainings.
  - Colors improvements (optimal fg color, palettes in custom settings, title bar widget)
  - Light theme for taurus trend in taurus custom settings
  - TaurusDevicePanel favourite commands
  - New schemes (OPCUA)
  - Improve tooltips (better messages, color roles?)
  - ...

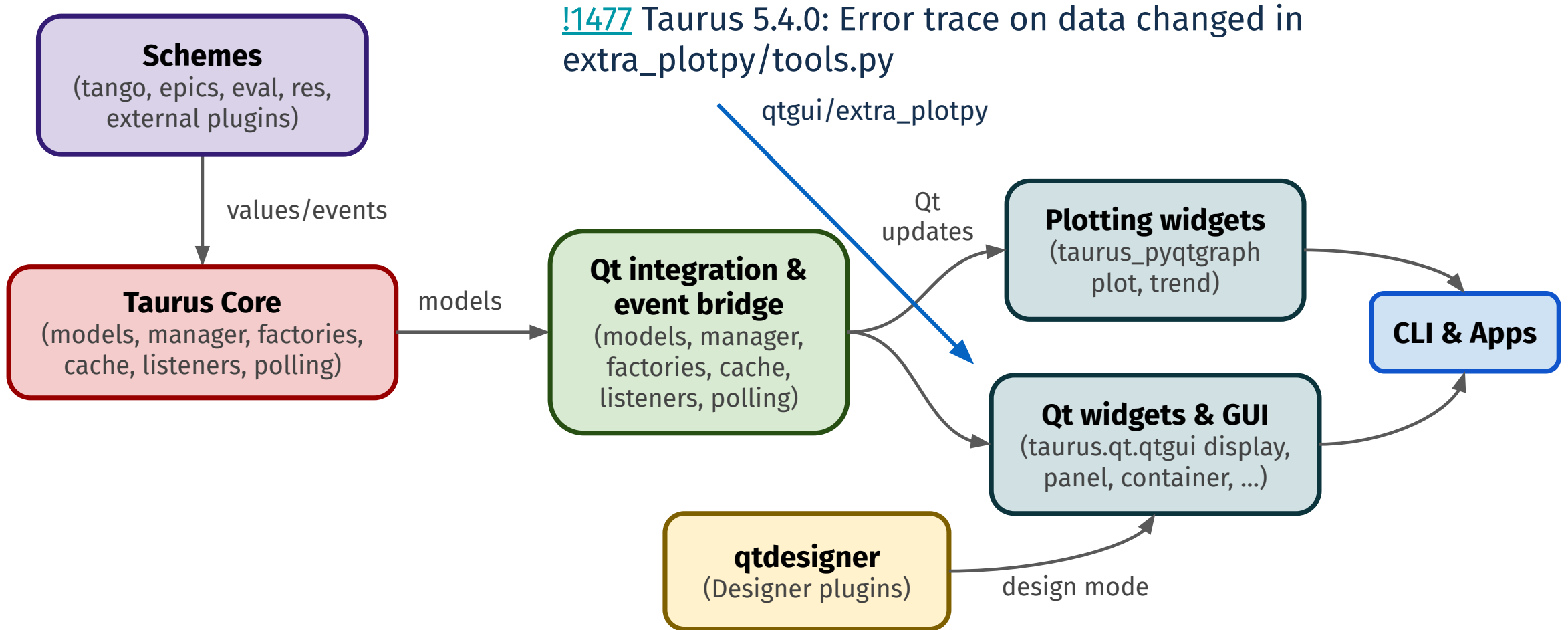
# Resources

- Taurus documentation: <https://taurus-scada.org/>
- Taurus repository: <https://gitlab.com/taurus-org/taurus>  
wiki also contain useful links: <https://gitlab.com/taurus-org/taurus/-/wikis/Home>
- Taurus PyQtGraph: [https://gitlab.com/taurus-org/taurus\\_pyqtgraph](https://gitlab.com/taurus-org/taurus_pyqtgraph)
- Taurus trainings: <https://gitlab.com/taurus-org/taurus-training>
- Taurus [mailing lists](#)
- Monthly follow-up meetings with the community.
  - Meeting minutes: <https://gitlab.com/taurus-org/taurus-followup>
- Taurus Mattermost channel in Tango-Controls

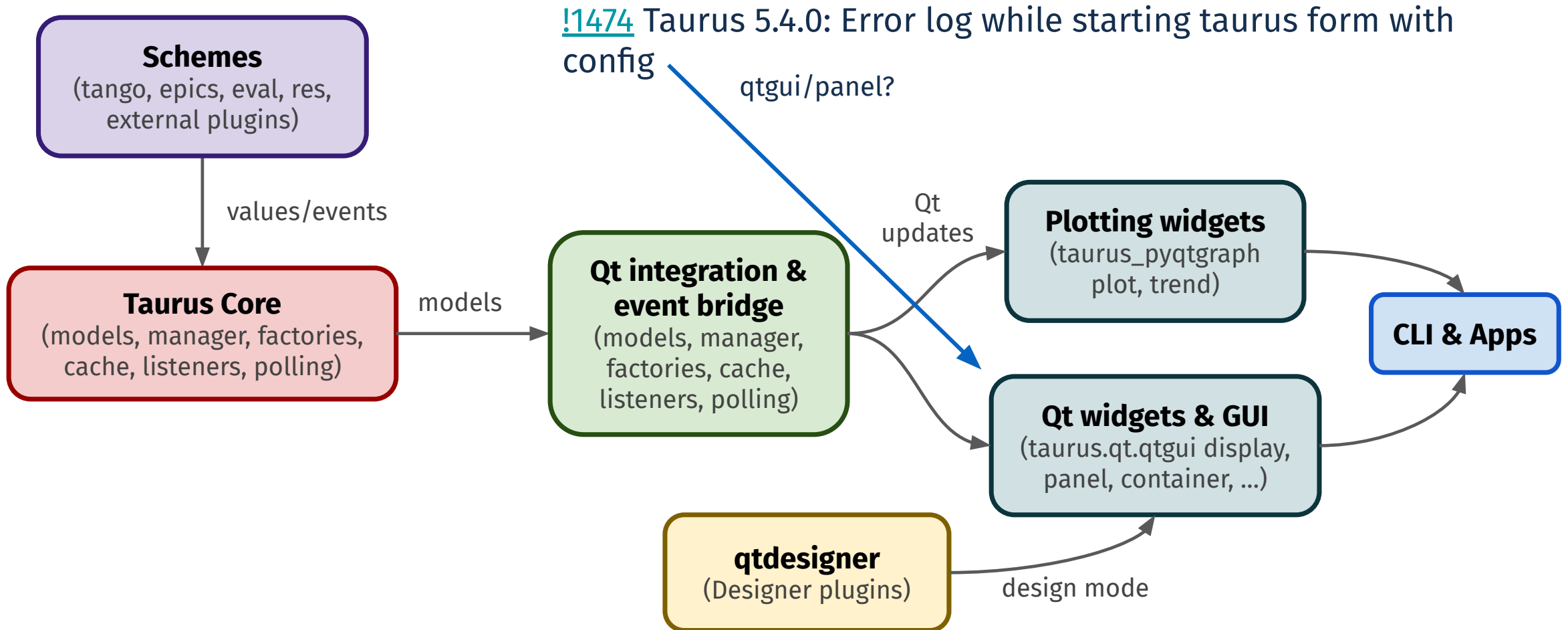
# Mapping issues to code areas



# Mapping issues to code areas

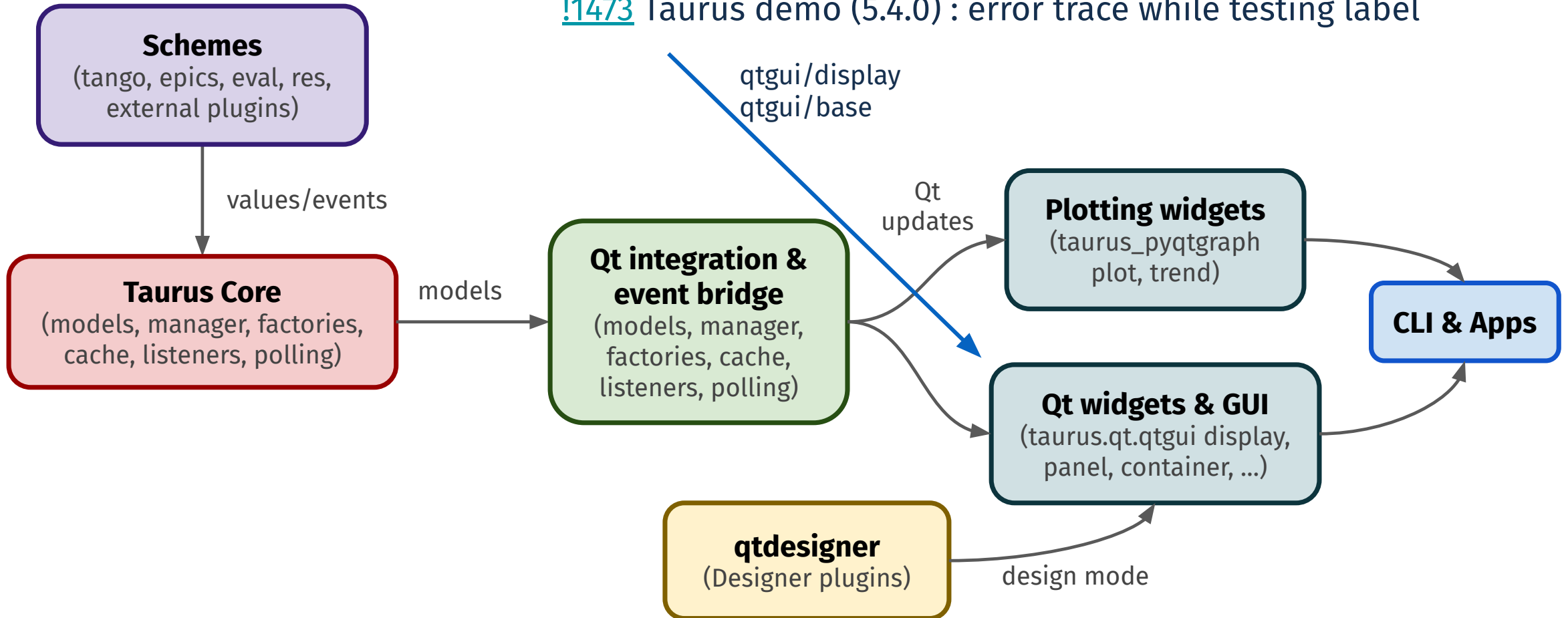


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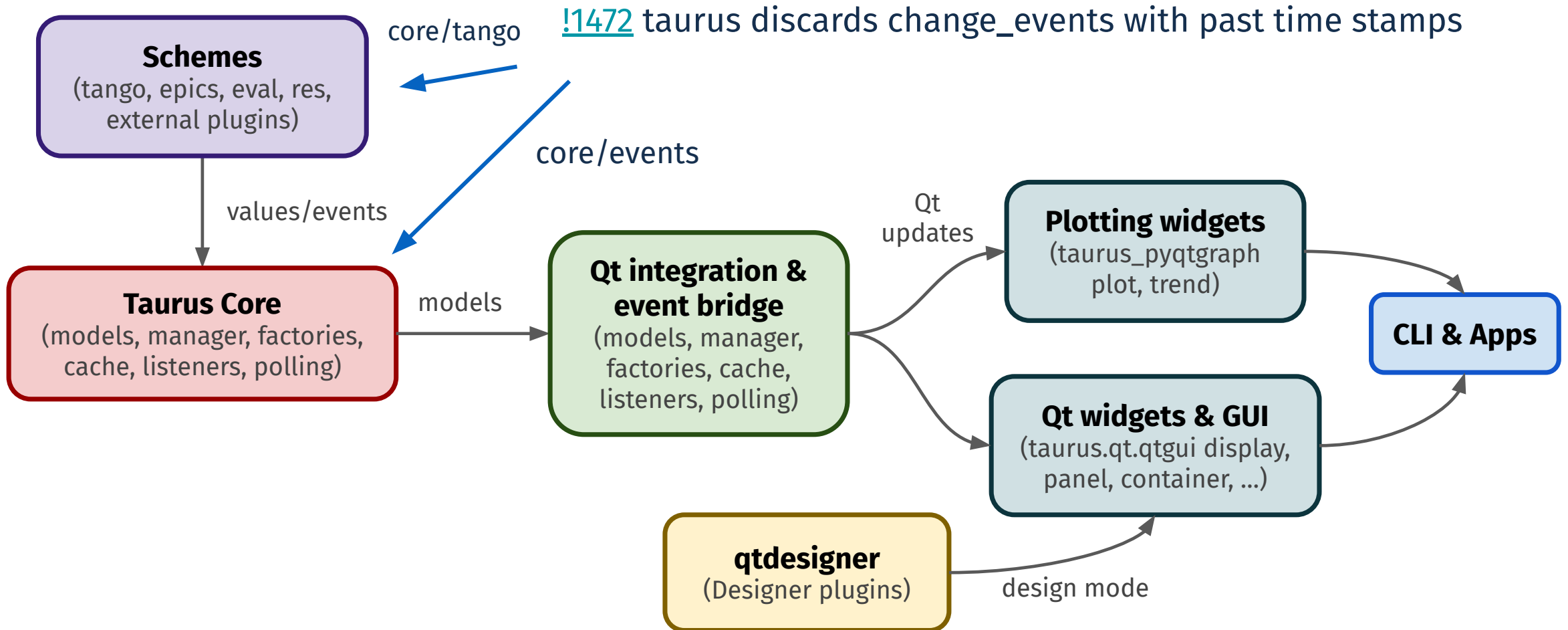


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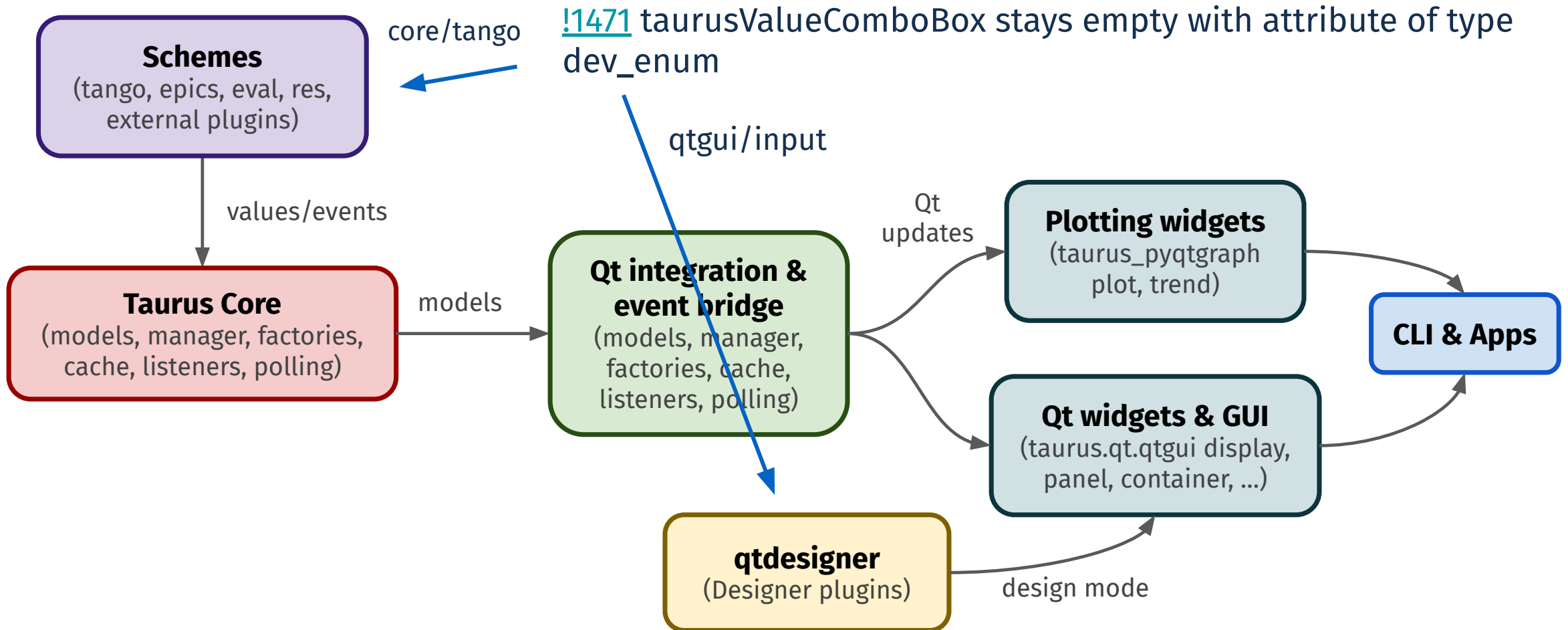
[!1473](#) Taurus demo (5.4.0) : error trace while testing label



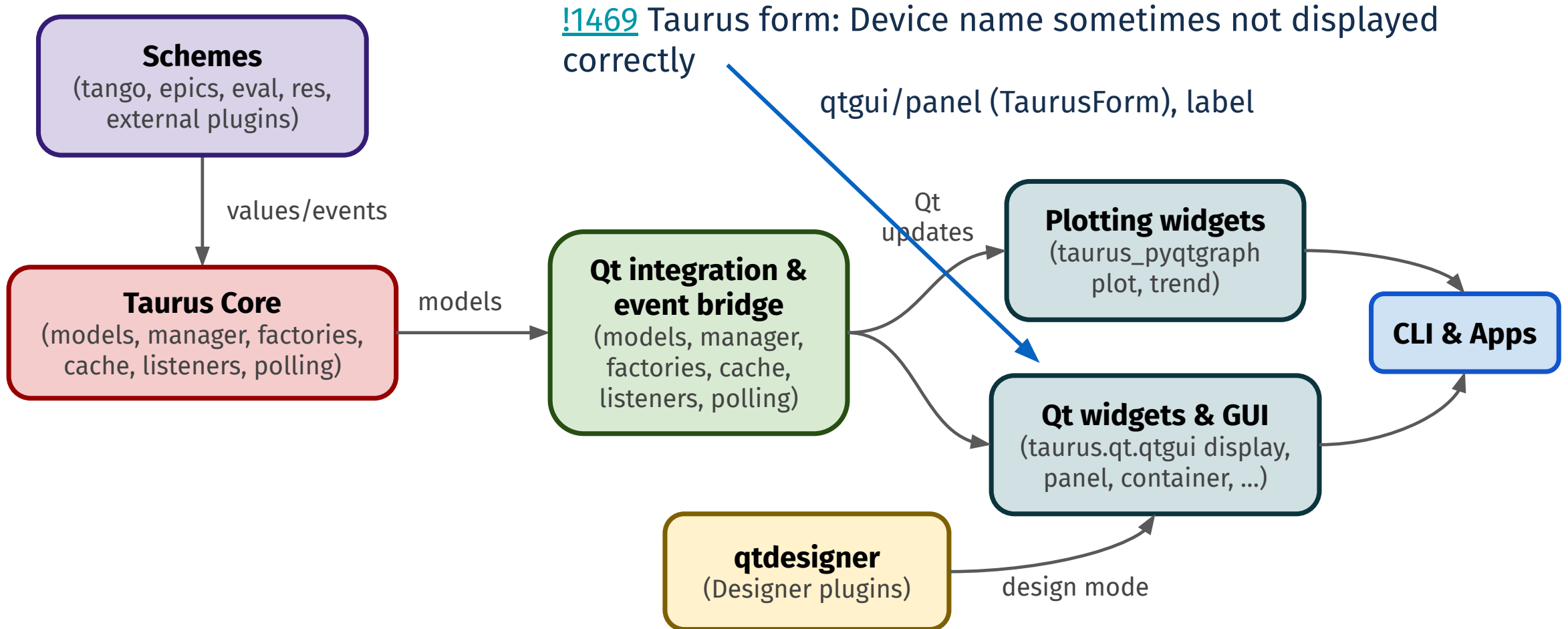
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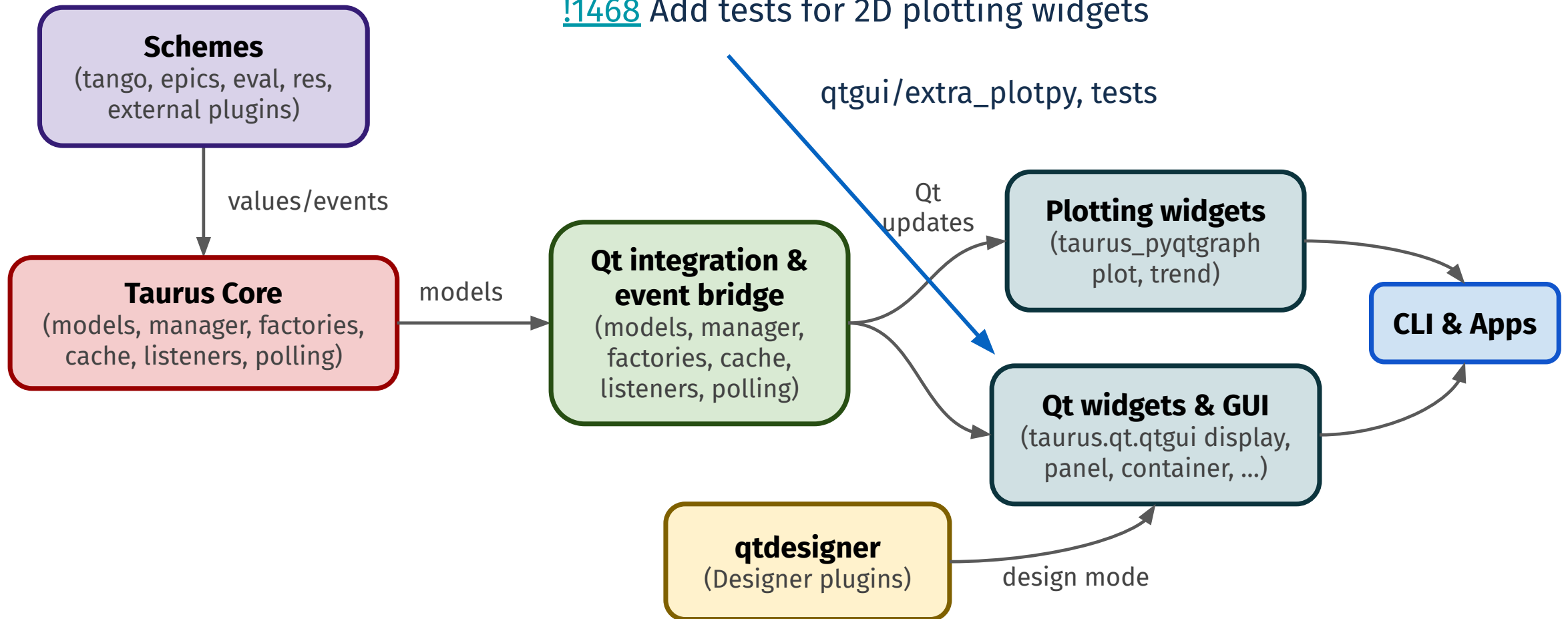
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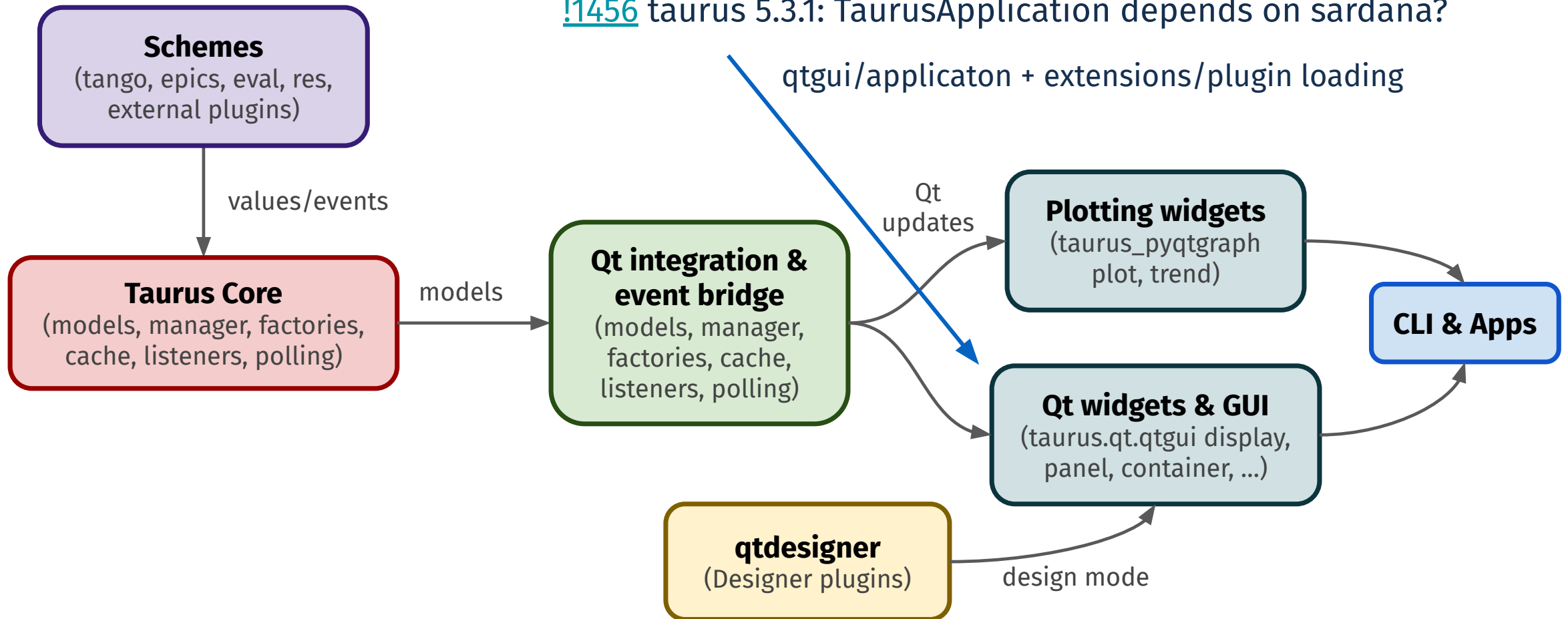
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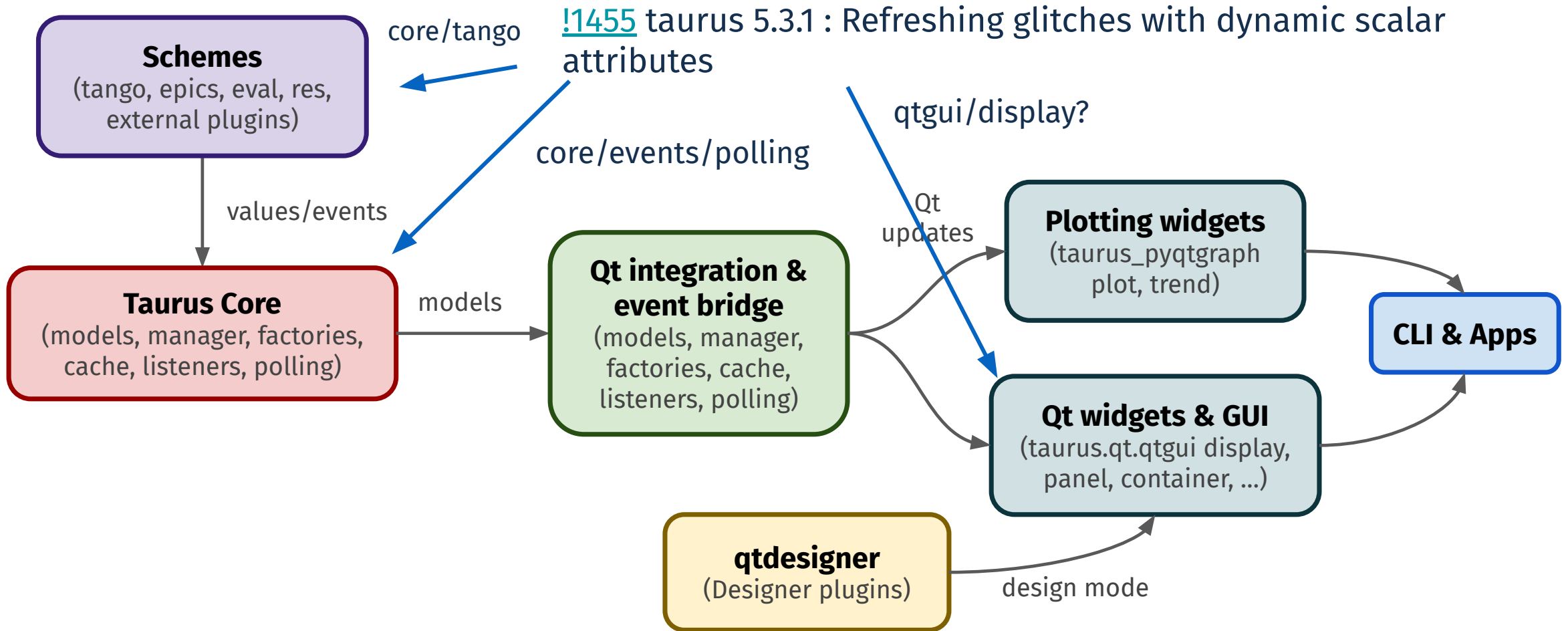
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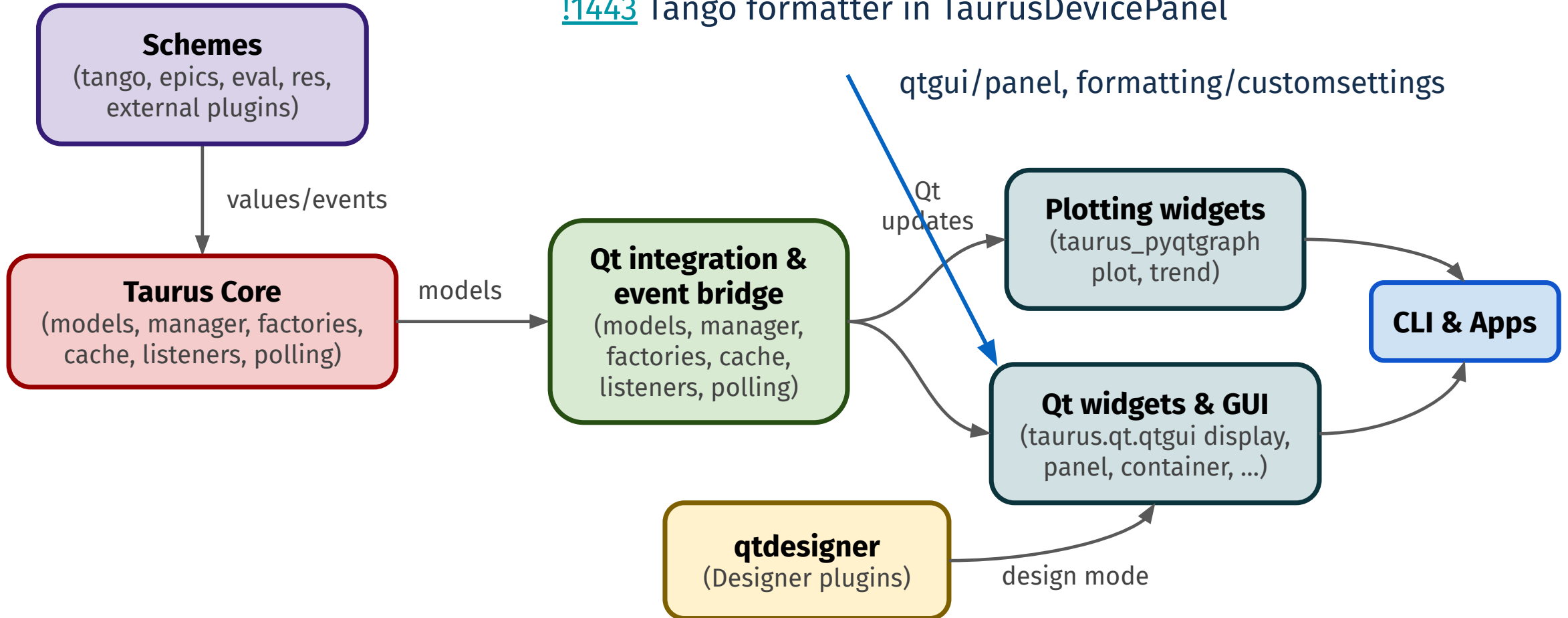


# Mapping issues to code areas



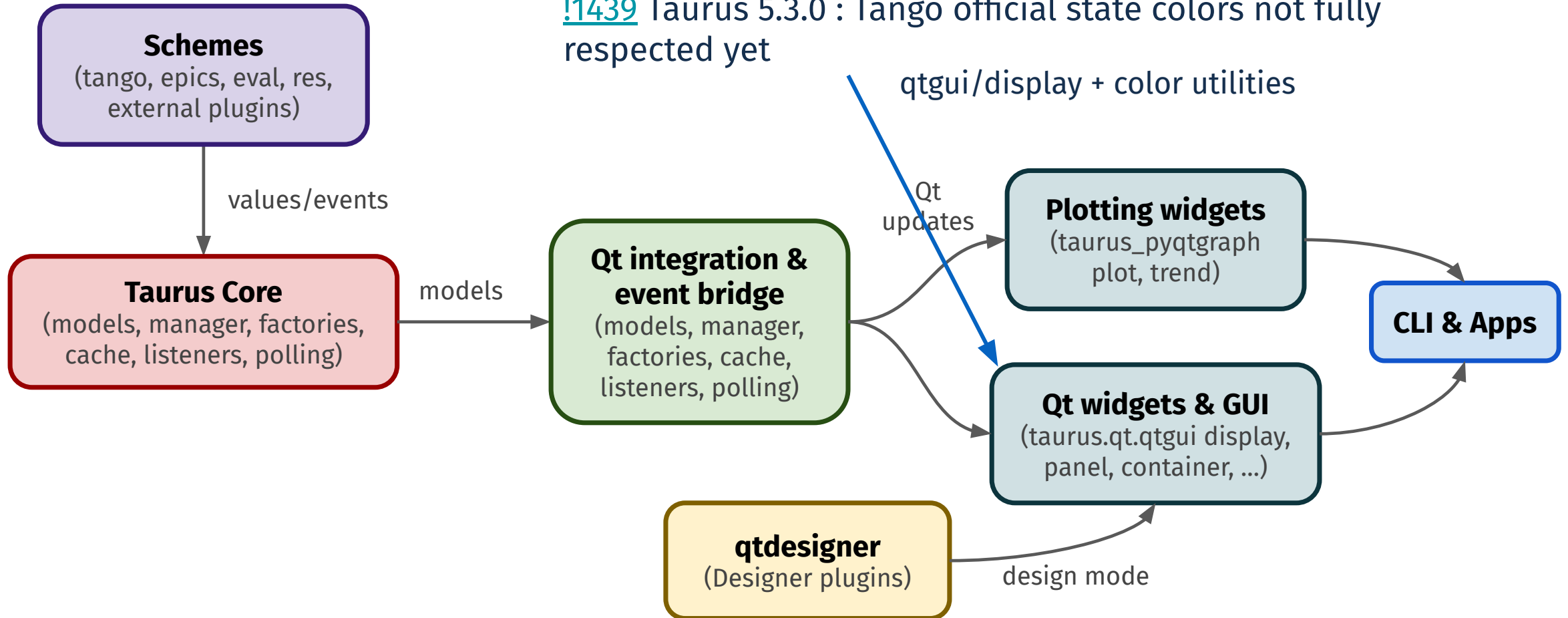
# Mapping issues to code areas

[!1443](#) Tango formatter in TaurusDevicePanel



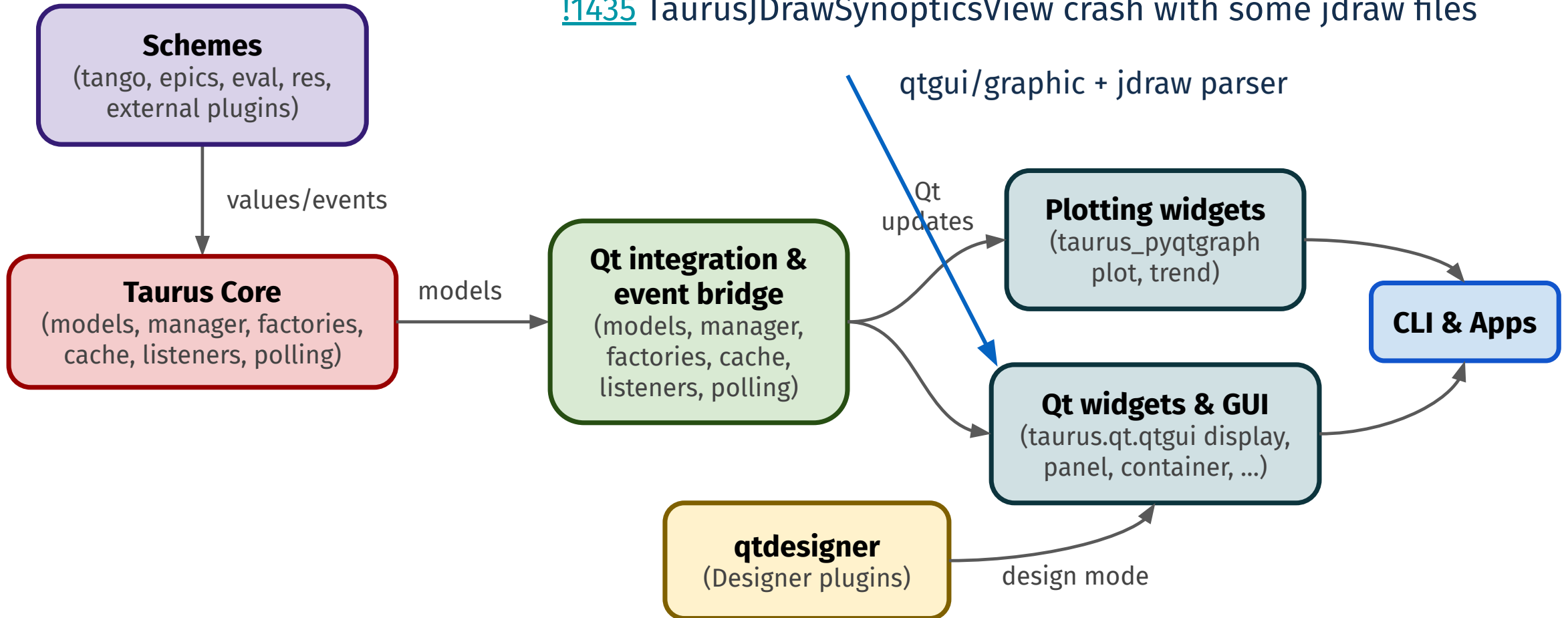
# Mapping issues to code areas

[!1439](#) Taurus 5.3.0 : Tango official state colors not fully respected yet



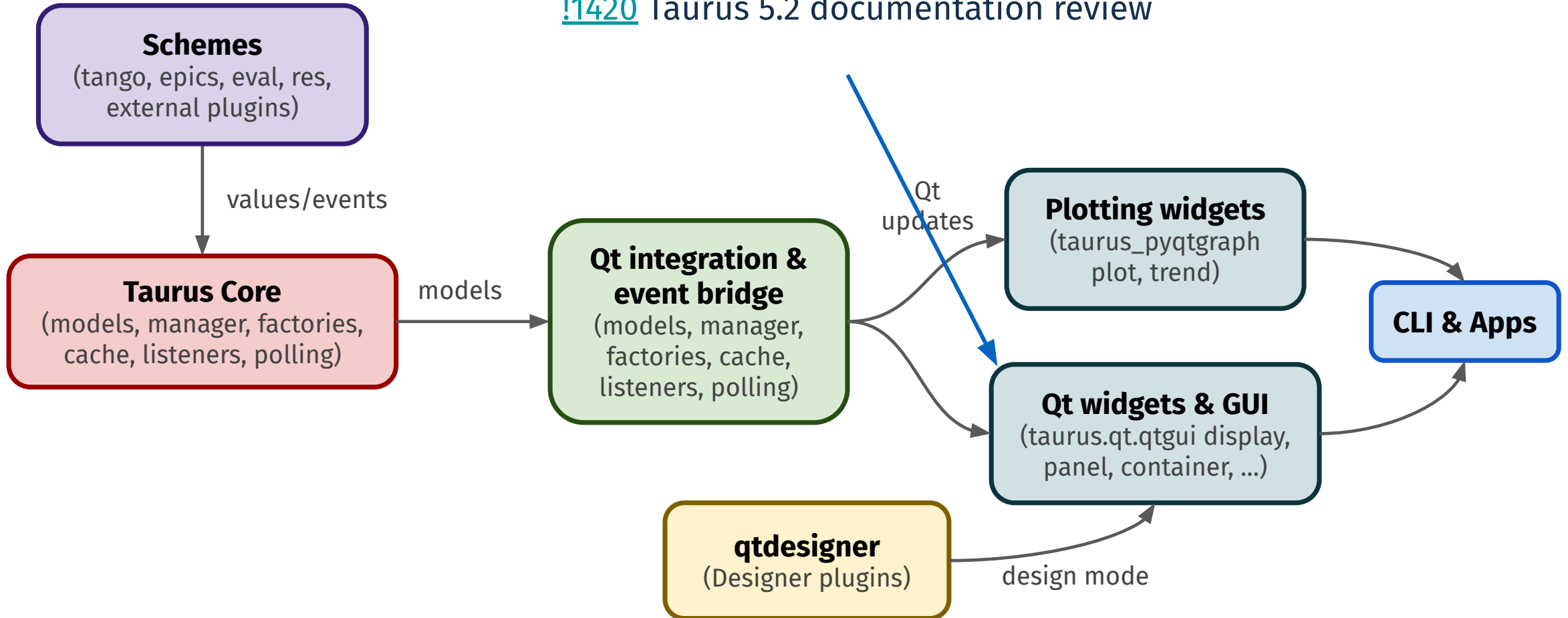
# Mapping issues to code areas

[!1435](#) TaurusJDrawSynopticsView crash with some jdraw files

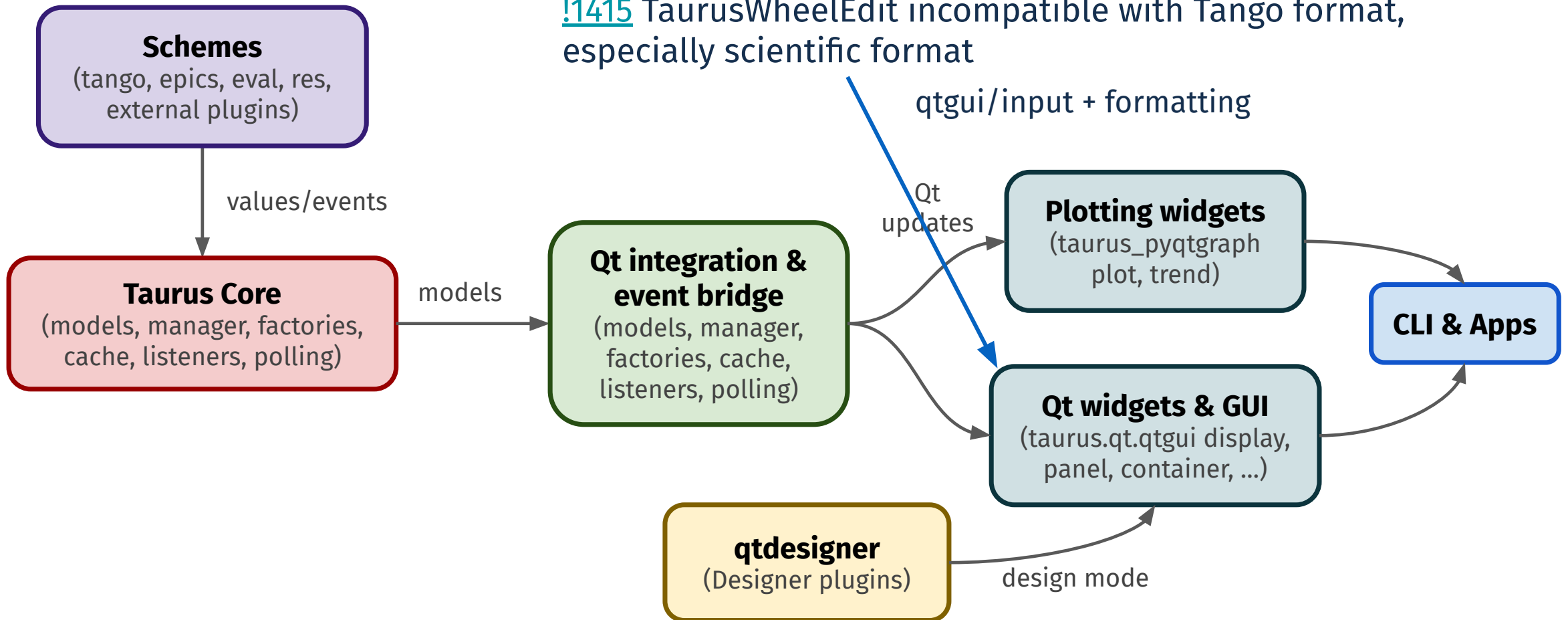


# Mapping issues to code areas

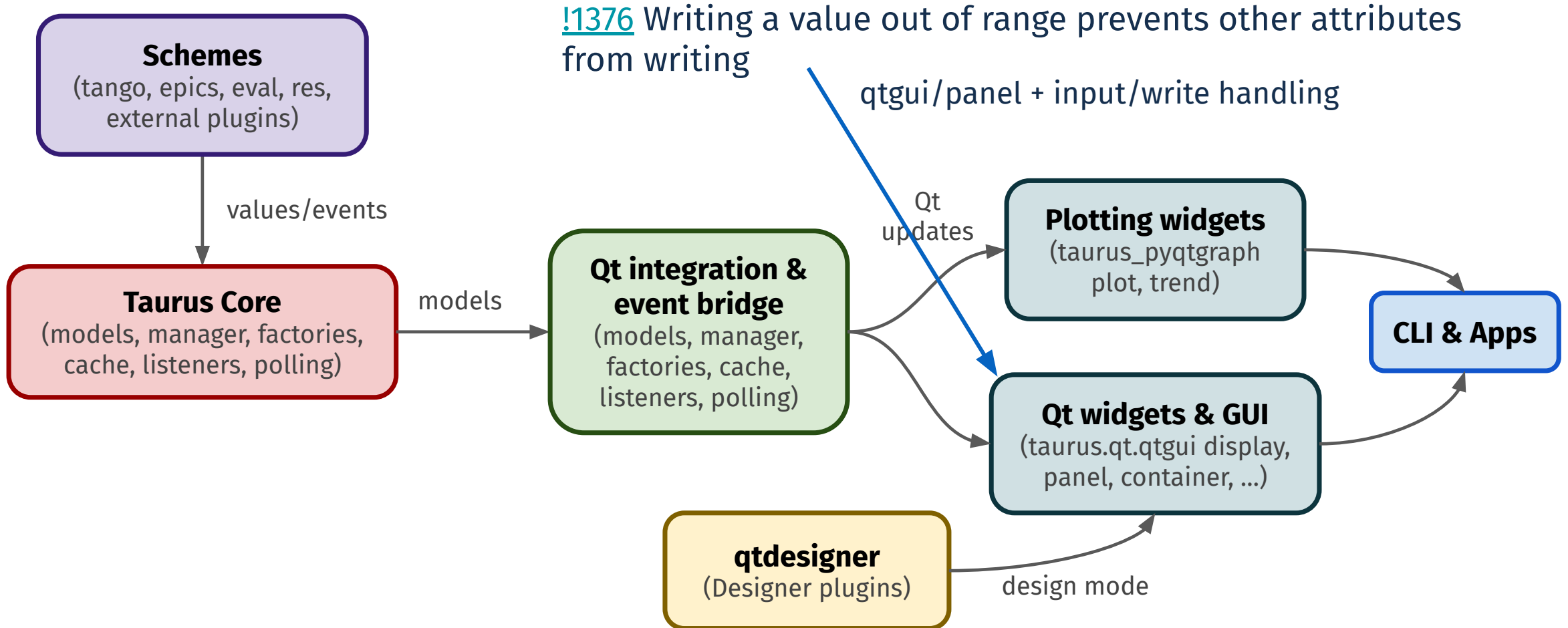
[!1420](#) Taurus 5.2 documentation review



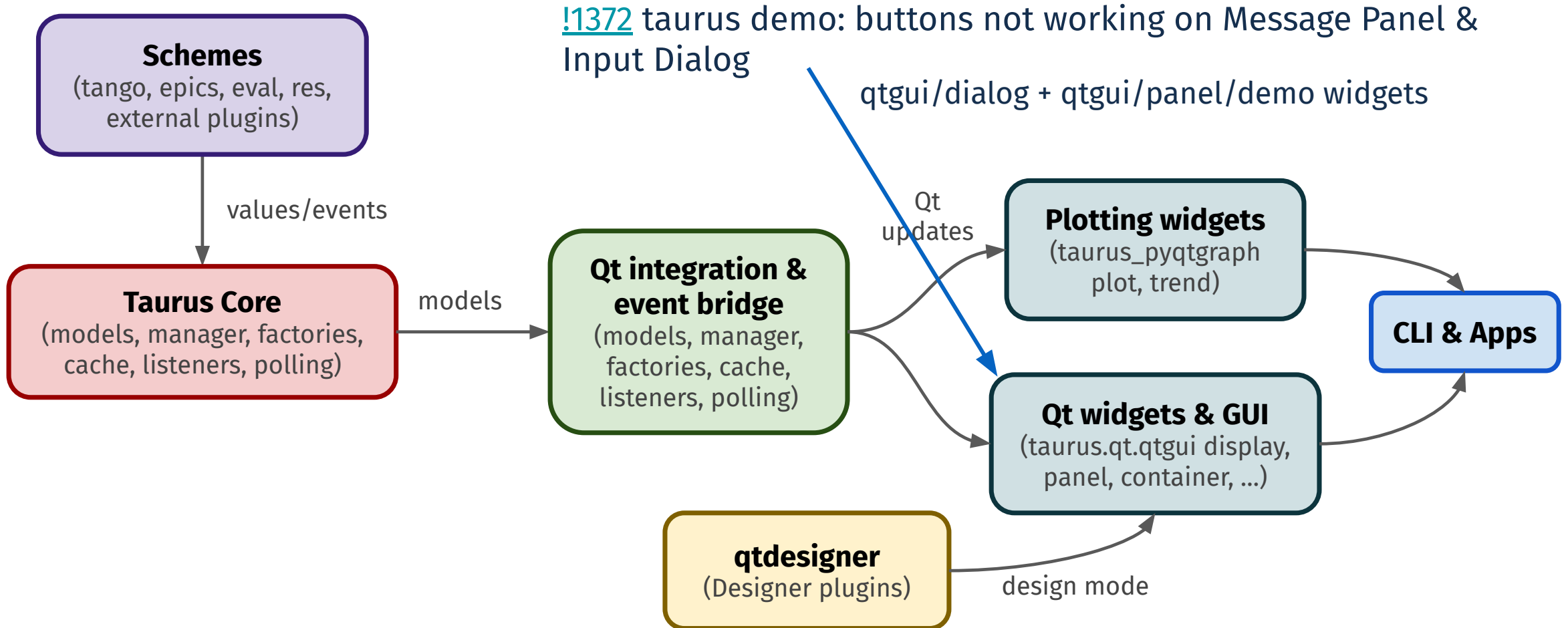
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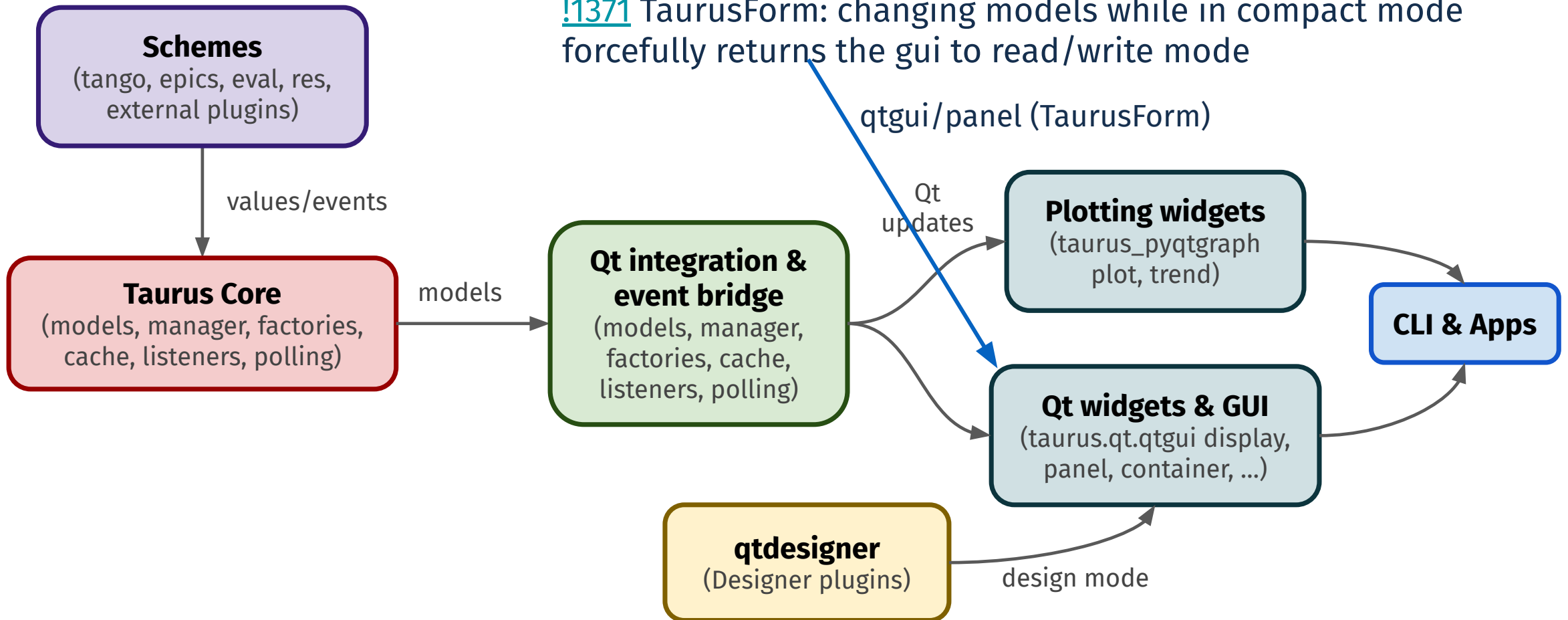
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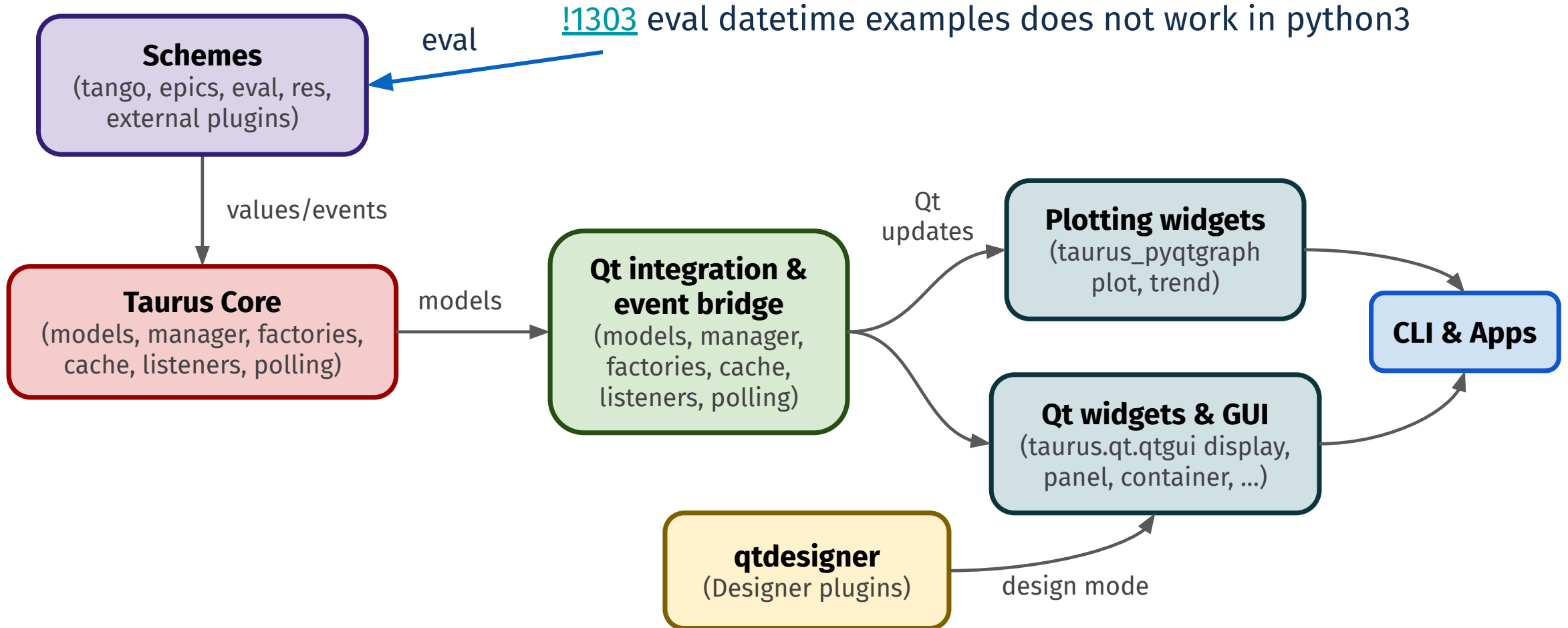


# Mapping issues to code areas



# Mapping issues to code areas

[!1303](#) eval datetime examples does not work in python3



# Acknowledgements

ALBA: Emilio Morales, Jose Ramos, Sergi Rubio, Zbigniew Reszela, *et.al.*

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Thank you for your attention!

