

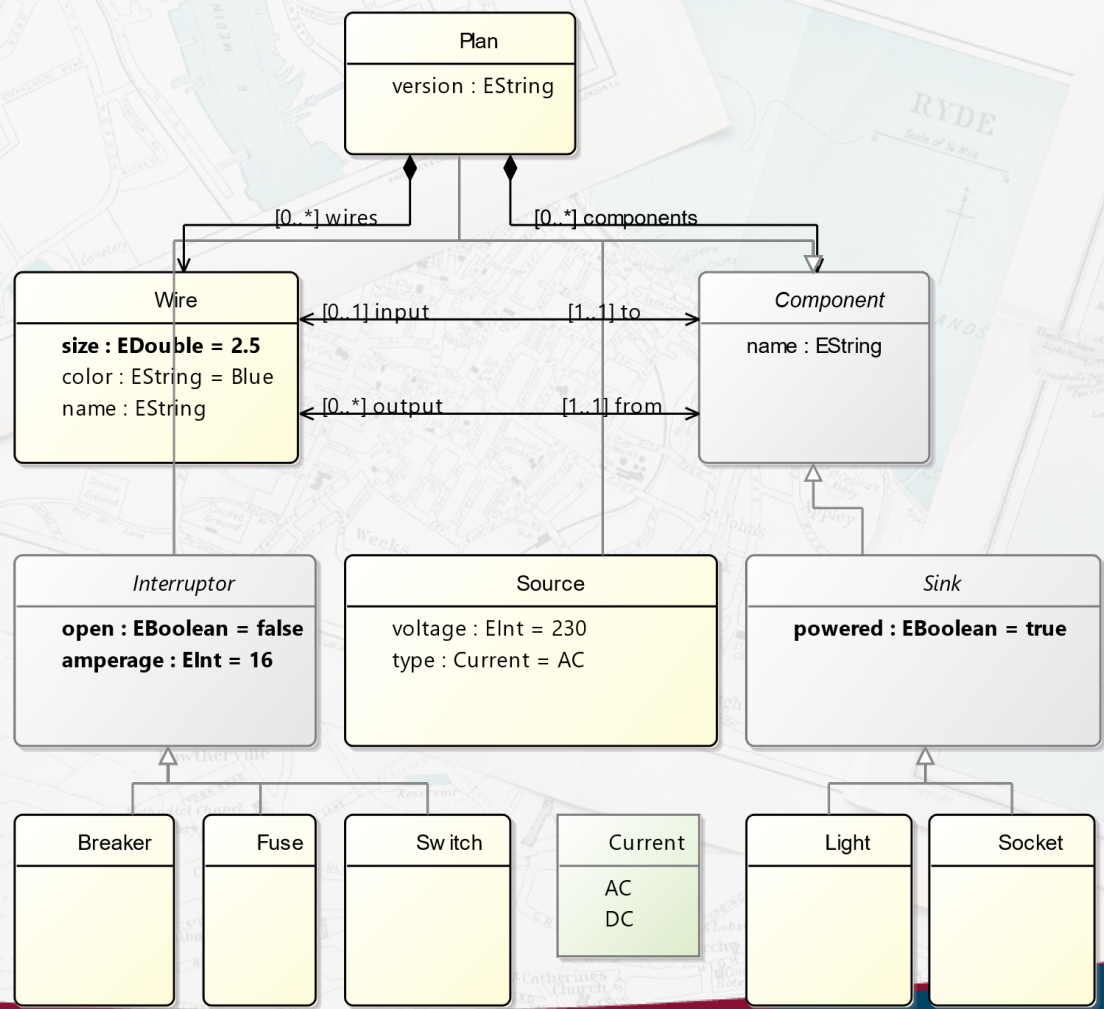


9 January 2020

Graphical modeling

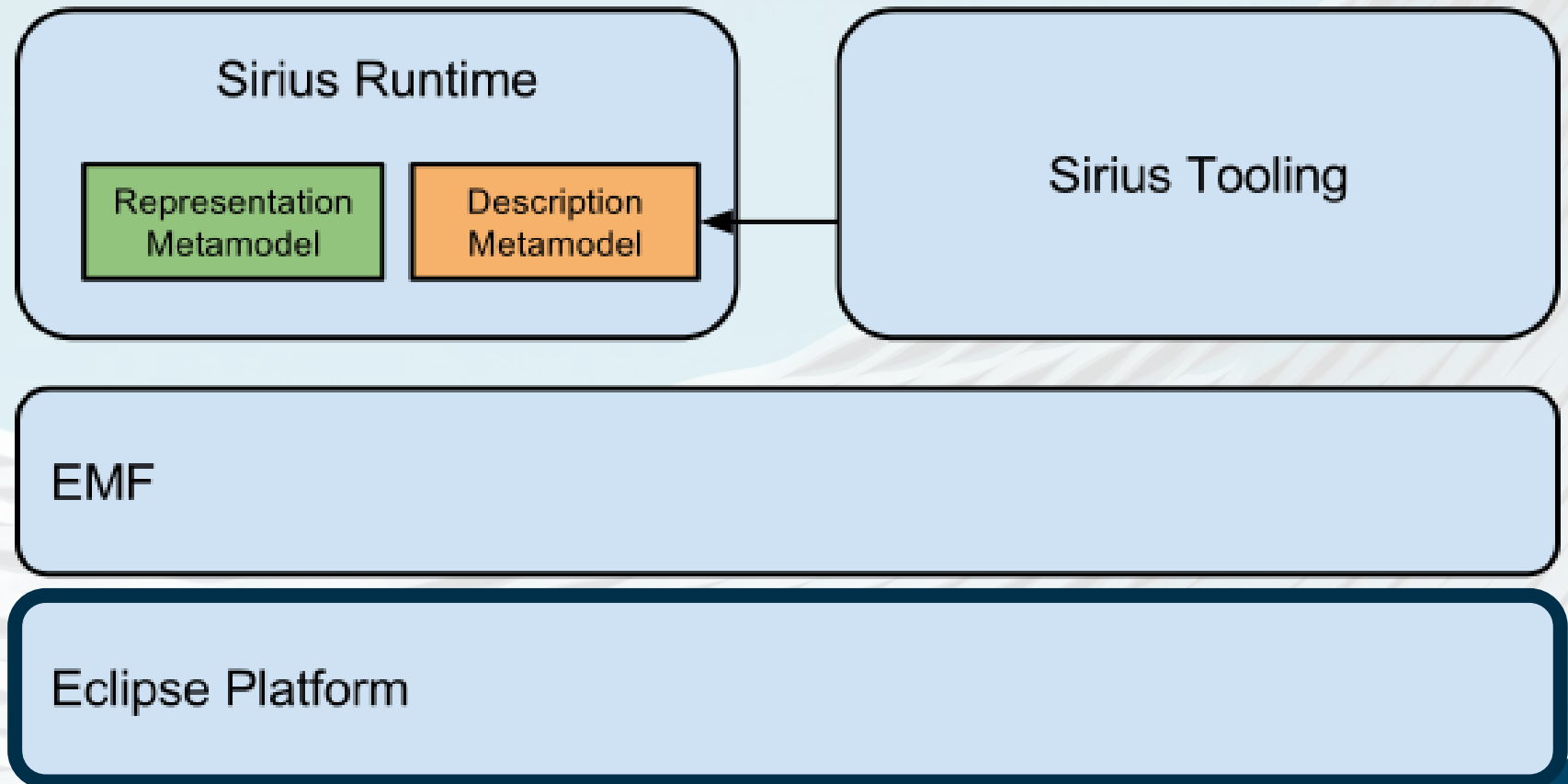
The Sirius framework

What is Sirius?



[1]: <http://www.eclipse.org/sirius/>

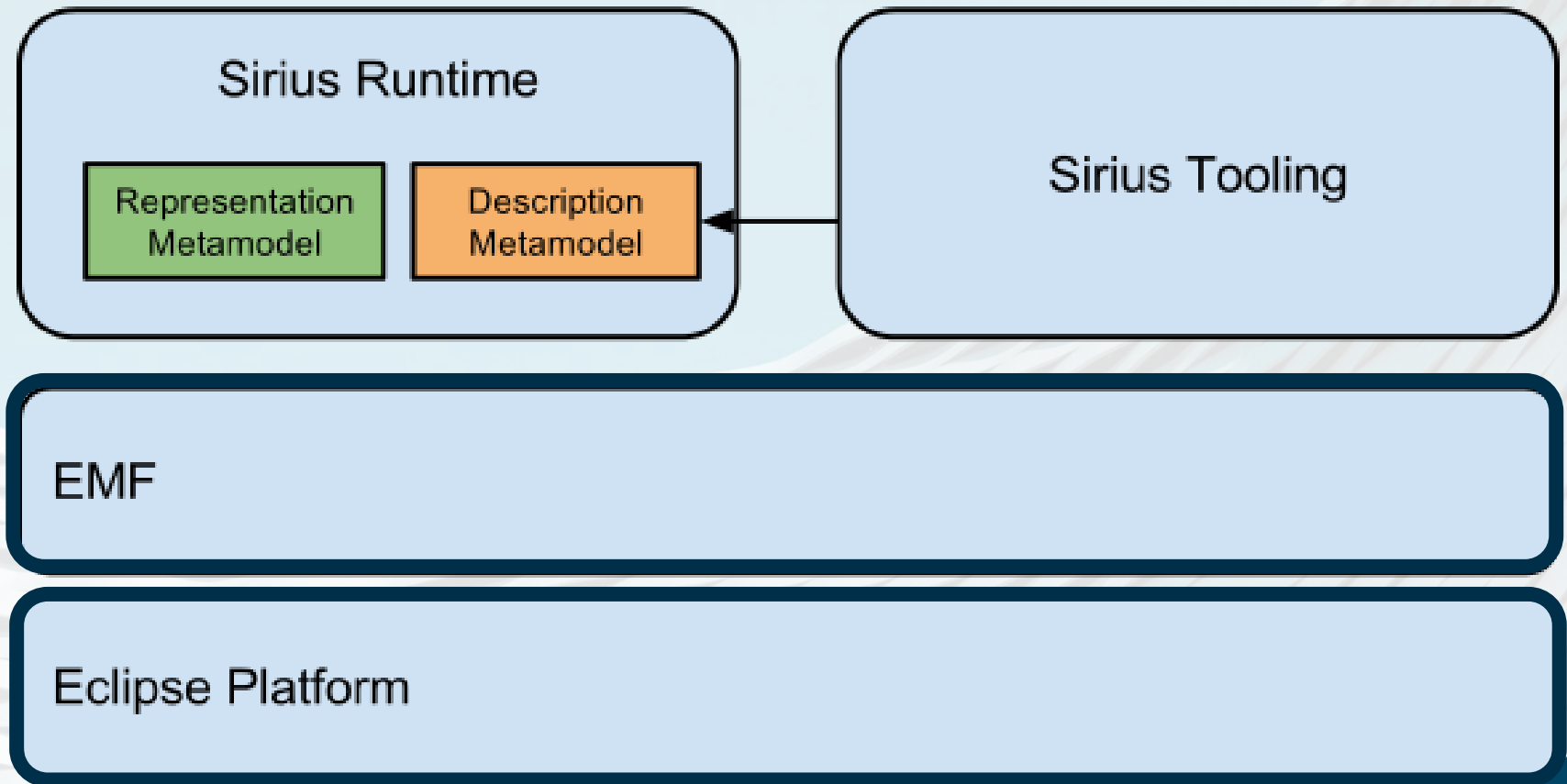
Architecture!



[2]: https://www.eclipse.org/sirius/doc/developer/Architecture_Overview.html

[3]: <https://www.eclipse.org/forums/index.php/t/1070145/>

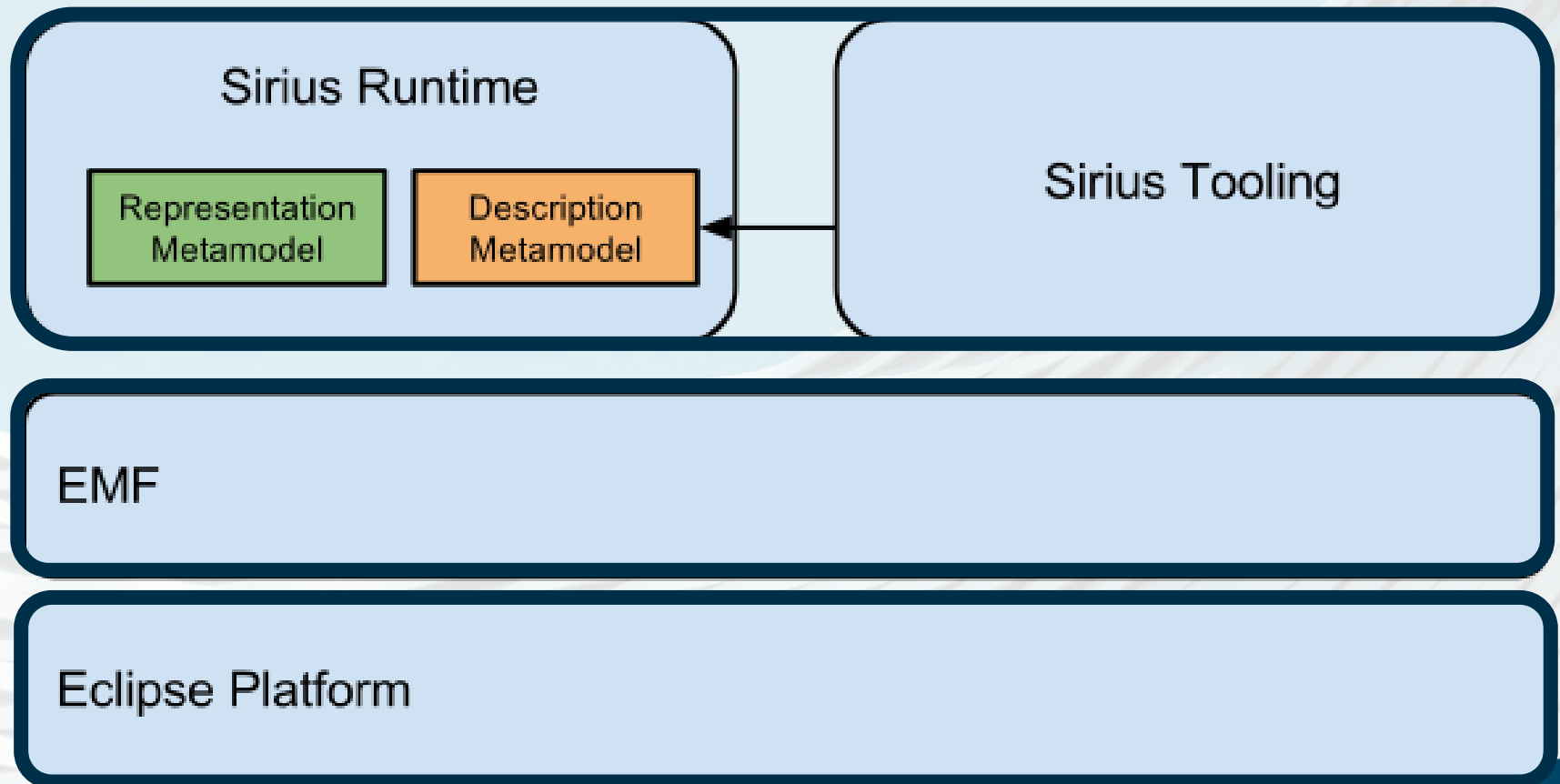
Architecture!



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Electricity as a use-case...



[4,5,6]

[4]: http://economie.fgov.be/nl/consument/Energie/Elektriciteit/Controle_installations

[5]: <http://www.werk.belgie.be/defaultTab.aspx?id=593>

[6]: <http://www.epc-platform.be/files/arei-beknopt-vincotte.pdf>

Sirius is not the only tool!



≡ Eclipse

+ Draws on Eclipse plugins

≡ Extendable because of API

+ Fast way to edit

■ Higher entry point

≡ Node.js

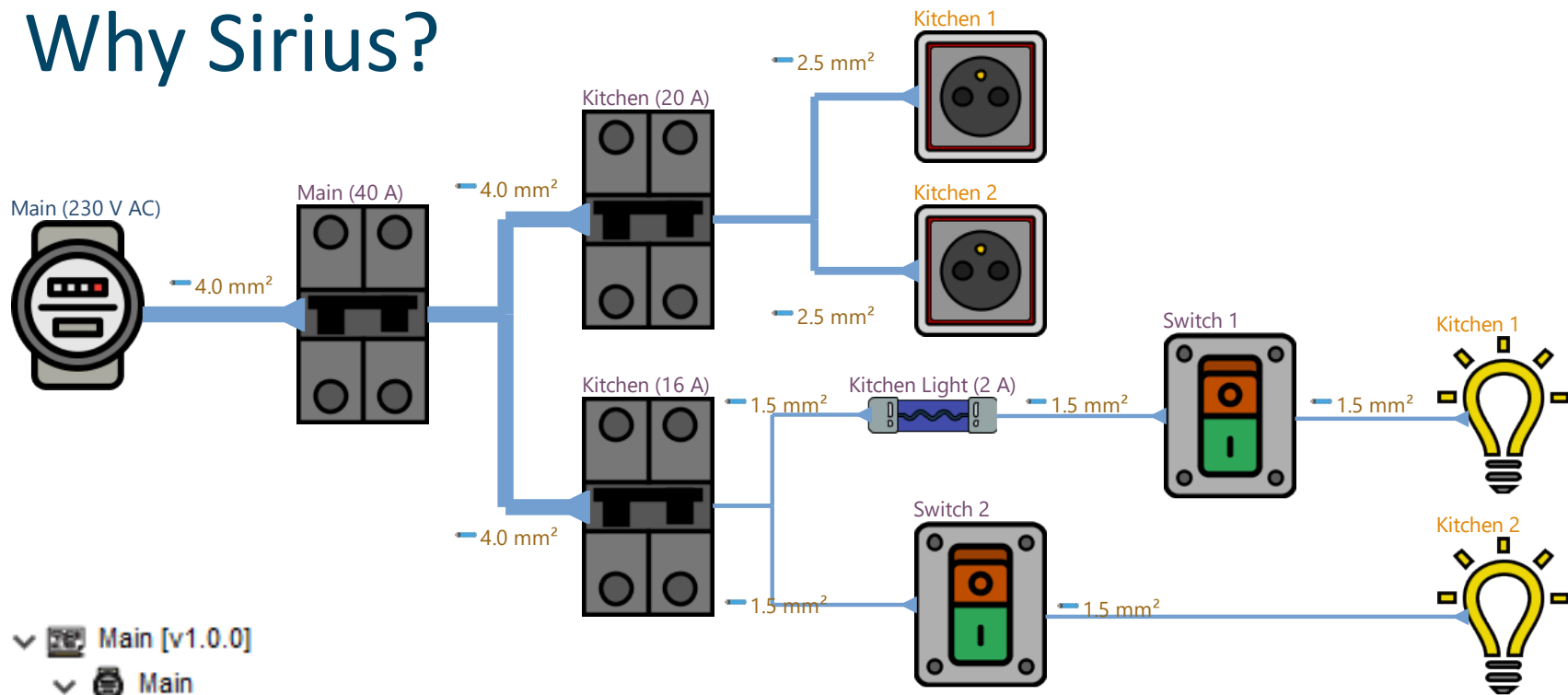
+ Standalone bootstrapped

≡ Extendable with models

■ Uncommon shortcuts
Custom UI

+ Easy first steps

Why Sirius?



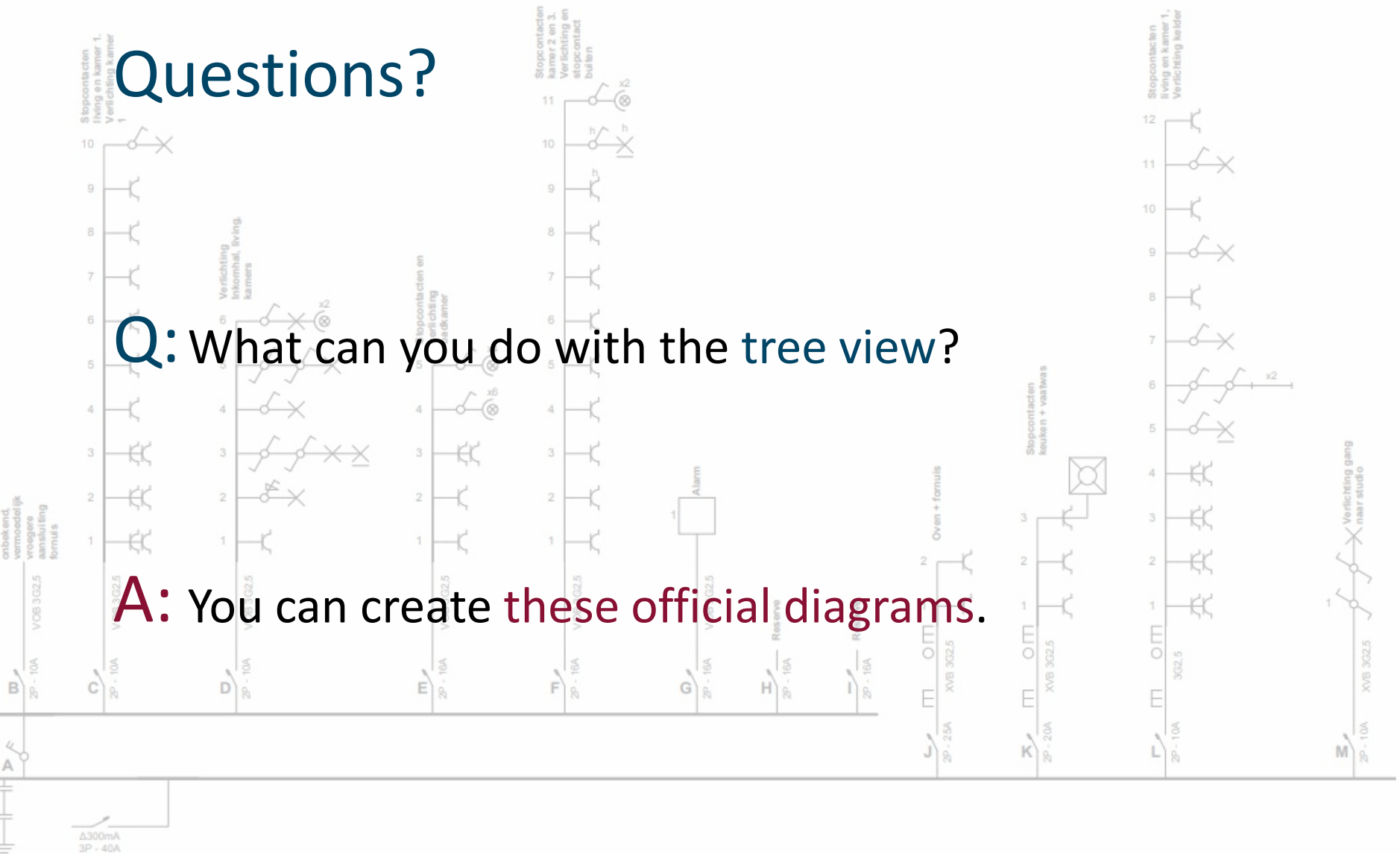
- ▼ Main [v1.0.0]
 - ▼ Main
 - ▼ Main (40 A)
 - ▼ Kitchen (16 A)
 - ▼ Kitchen Light
 - ▼ Switch 1
 - 🔆 Kitchen 1
 - ▼ Switch 2
 - 🔆 Kitchen 2
 - ▼ Kitchen (20 A)
 - 🔌 Kitchen 2
 - 🔌 Kitchen 1

	Name	Color	Size	Max Amps	From	To	Voltage	Voltage Type
—	Main	Blue	4.0	40.0	Main	Main	230	AC
—	Kitchen Lights Breaker	Blue	4.0	40.0	Main	Kitchen	230	AC
—	Kitchen Socket 2	Blue	2.5	25.0	Kitchen	Kitchen 2	230	AC
—	Kitchen Light 1 Fuse	Blue	1.5	15.0	Kitchen	Kitchen Light	230	AC
—	Kitchen Socket 1	Blue	2.5	25.0	Kitchen	Kitchen 1	230	AC
—	Kitchen Socket Breaker	Blue	4.0	40.0	Main	Kitchen	230	AC
—	Kitchen Light 1 Switch	Blue	1.5	15.0	Kitchen Light	Switch 1	230	AC
—	Kitchen Light 1	Blue	1.5	15.0	Switch 1	Kitchen 1	230	AC
—	Kitchen Light 2 Switch	Blue	1.5	15.0	Kitchen	Switch 2	230	AC
—	Kitchen Light 2	Blue	1.5	15.0	Switch 2	Kitchen 2	230	AC

Questions?

Q: What can you do with the tree view?

A: You can create these official diagrams.



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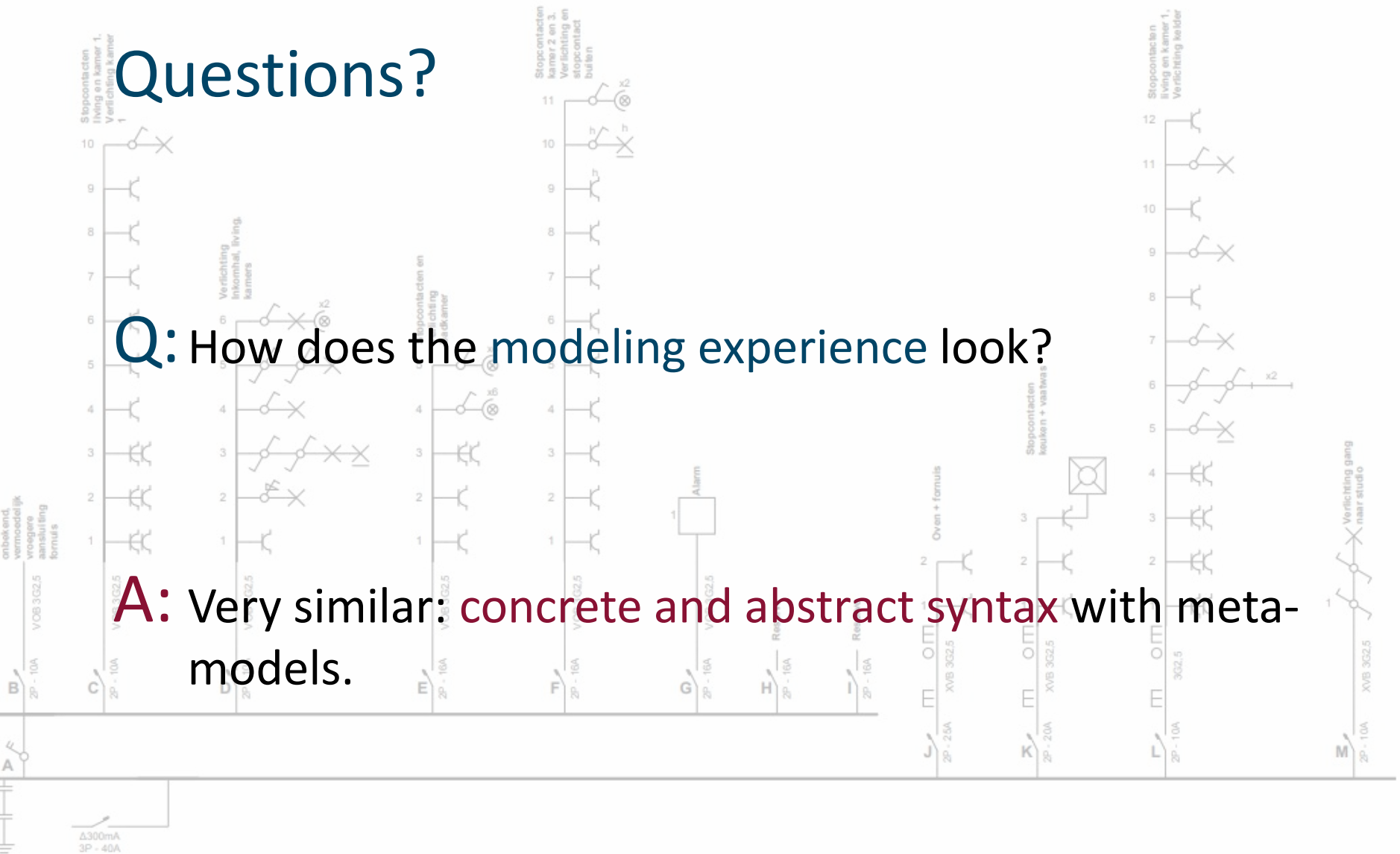
p. 1/5
Eendraadschema
2 x 230V ~ 50Hz



Questions?

Q: How does the modeling experience look?

A: Very similar: **concrete and abstract syntax** with meta-models.



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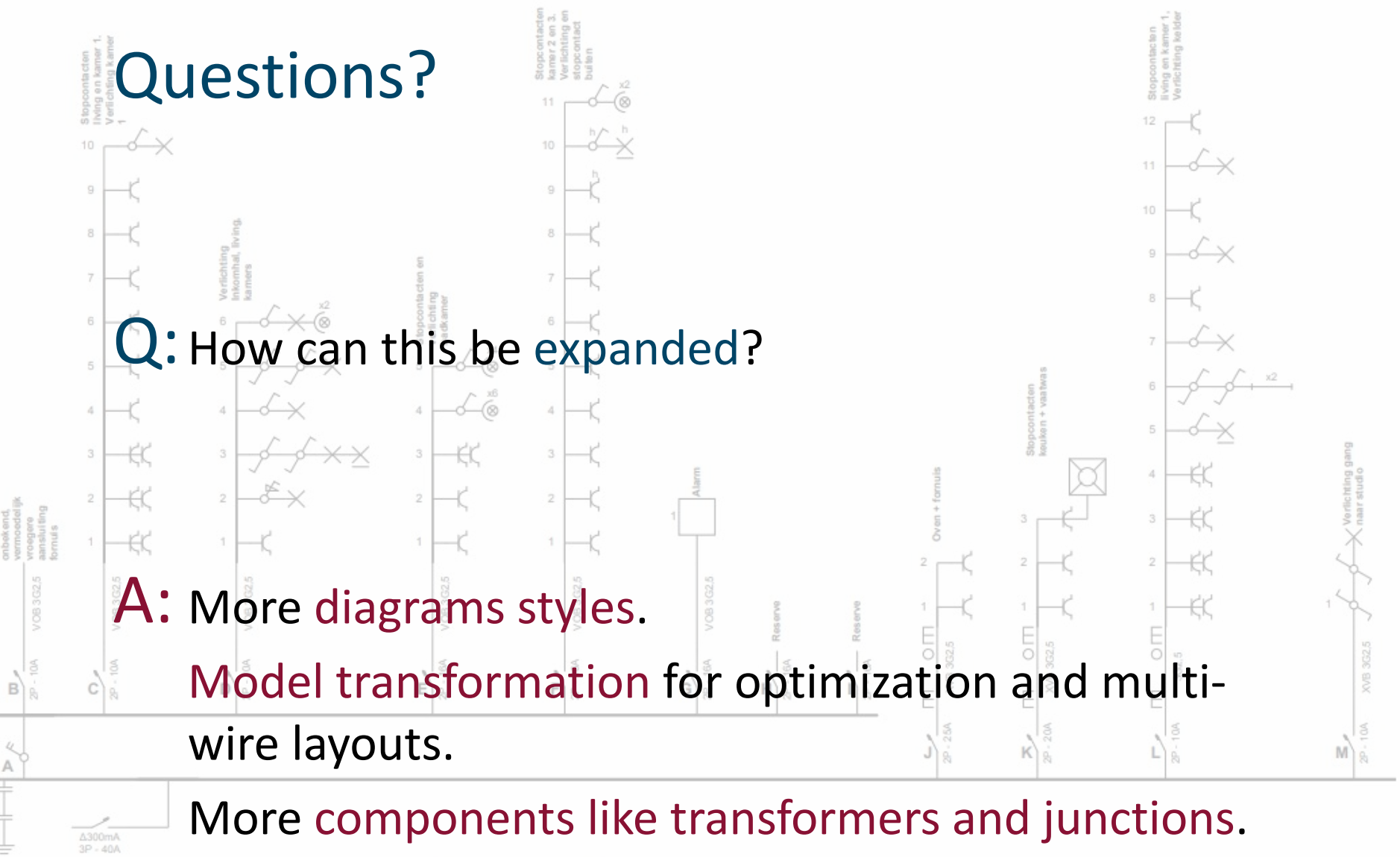
Questions?

Q: How can this be expanded?

A: More diagrams styles.

Model transformation for optimization and multi-wire layouts.

More components like transformers and junctions.



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