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Community-driven DSL development with Collaboro

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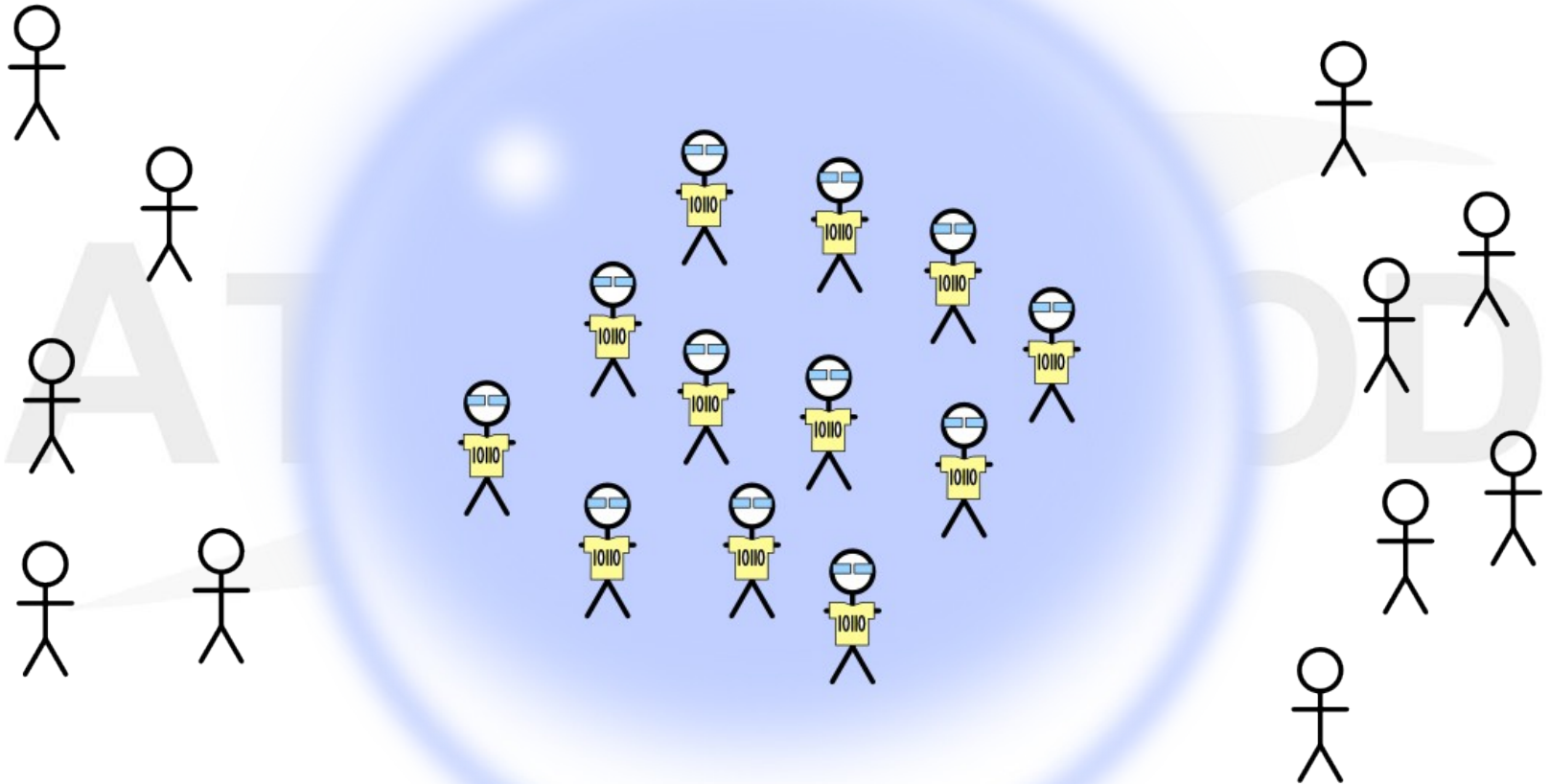
Collaboro - Community driven language development

Hugo Bruneliere

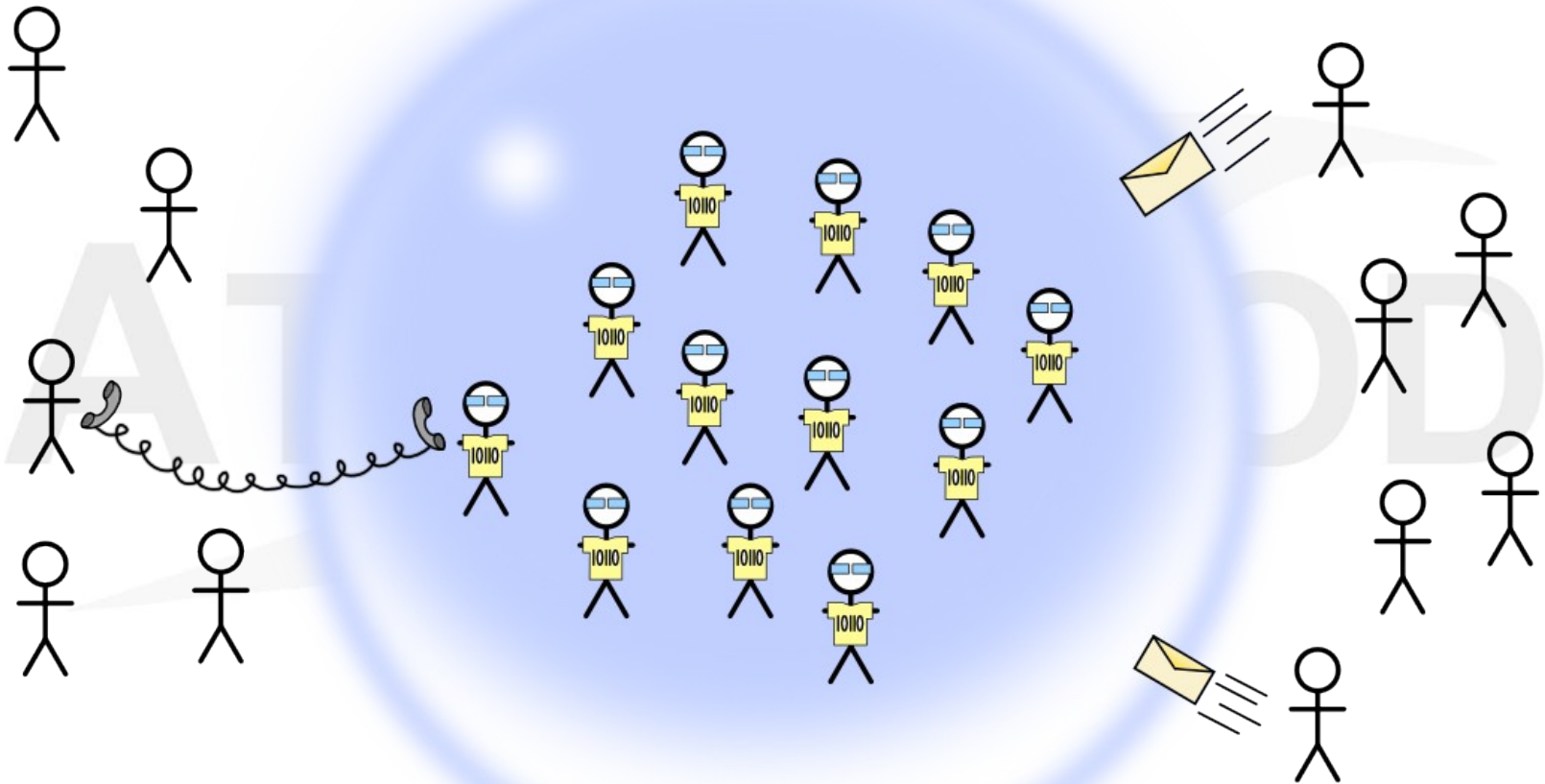
AtlanMod team (Inria, EMN & LINA)

EclipseCon Europe 2012 – Modeling Symposium
Tuesday 23rd of October 2012

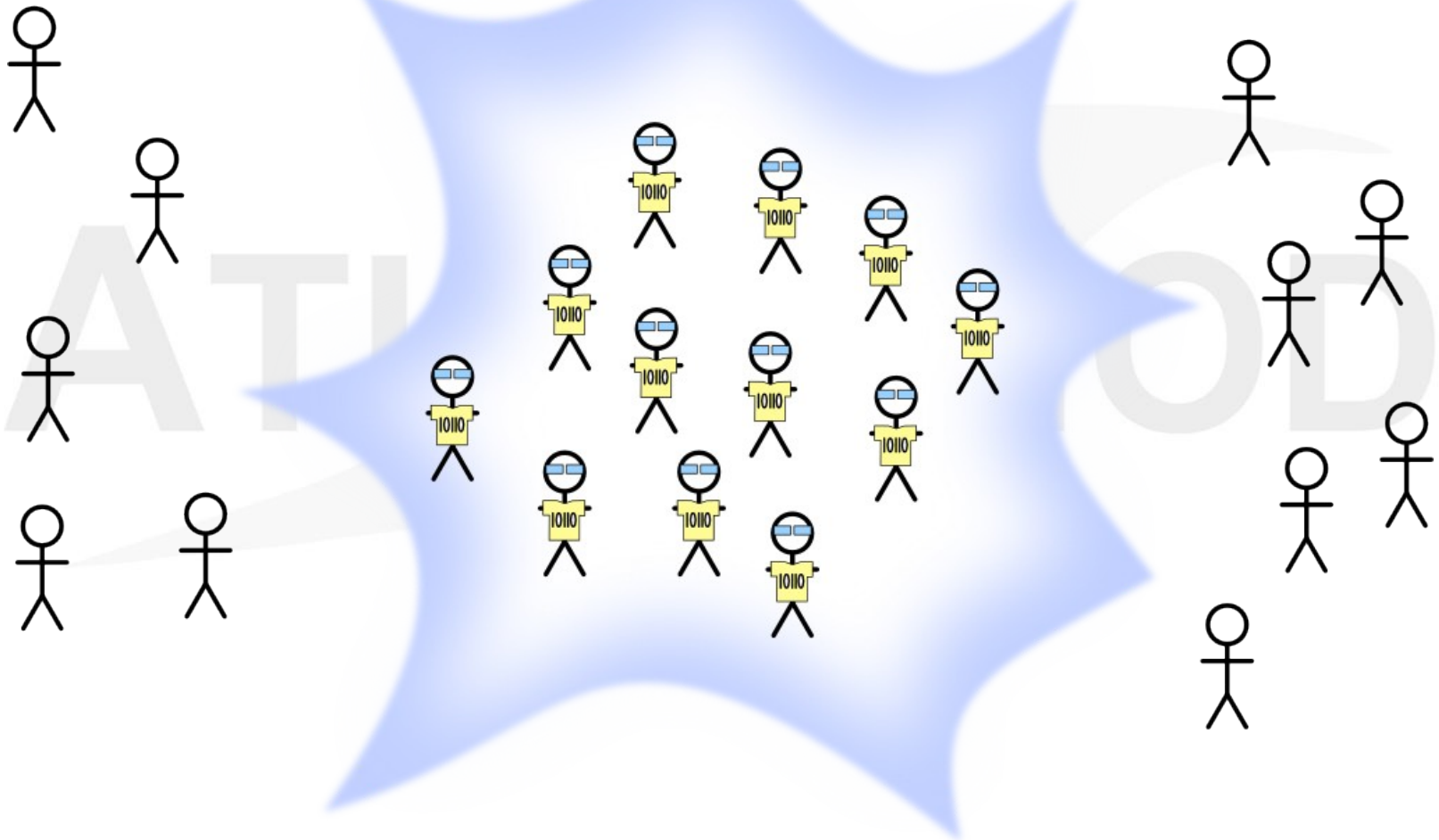
Developing DSLs...



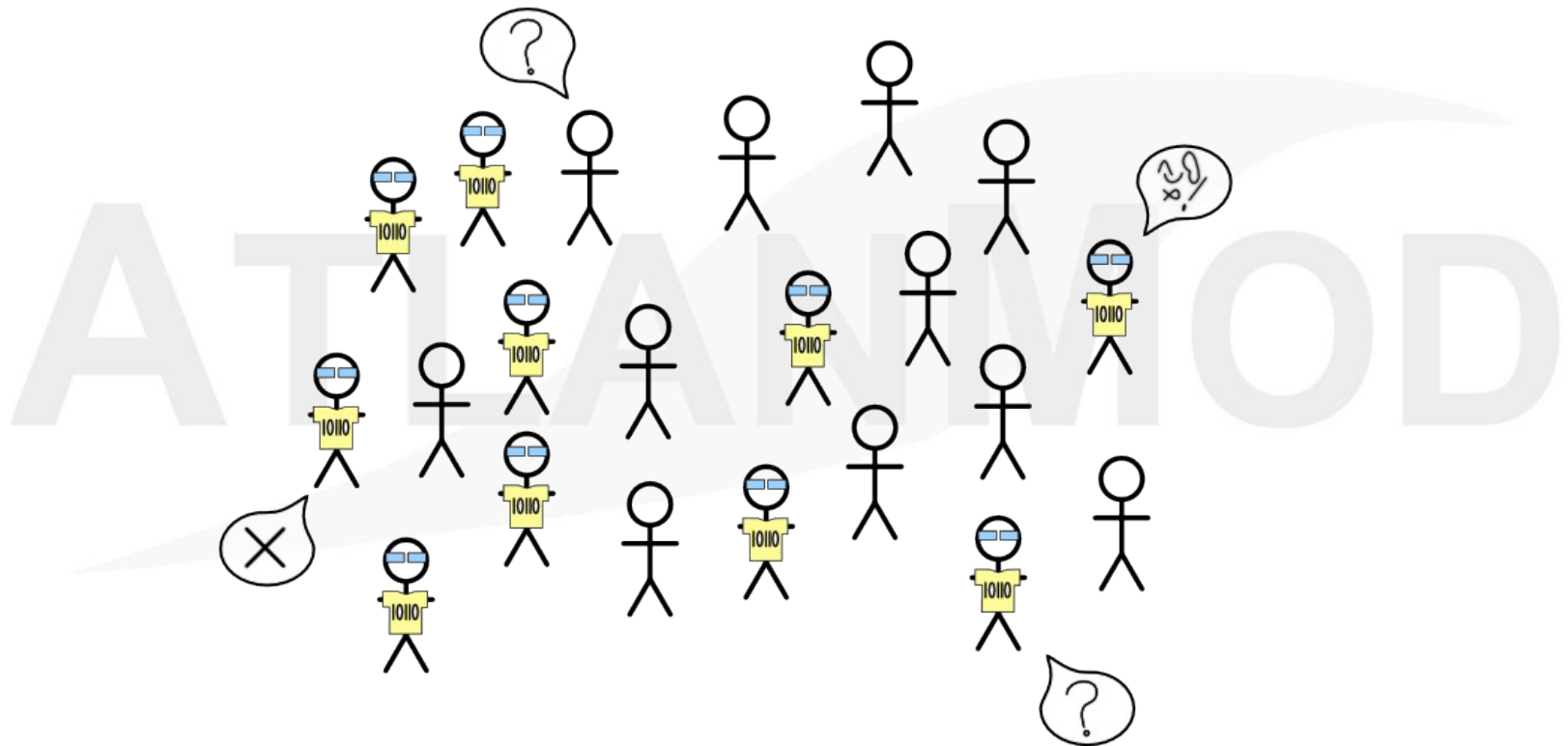
Developing DSLs...



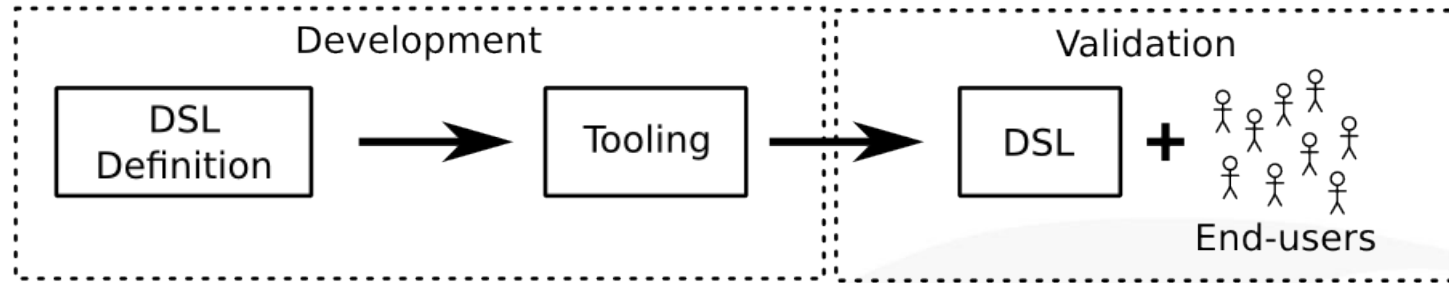
Developing DSLs...



Developing DSLs...

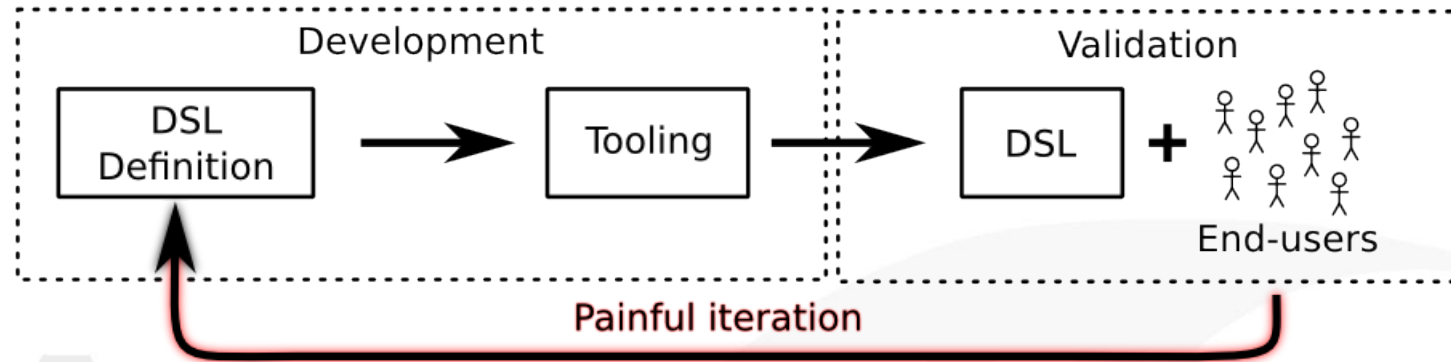


Collaboro: Enabling the collaborative definition of DSLs



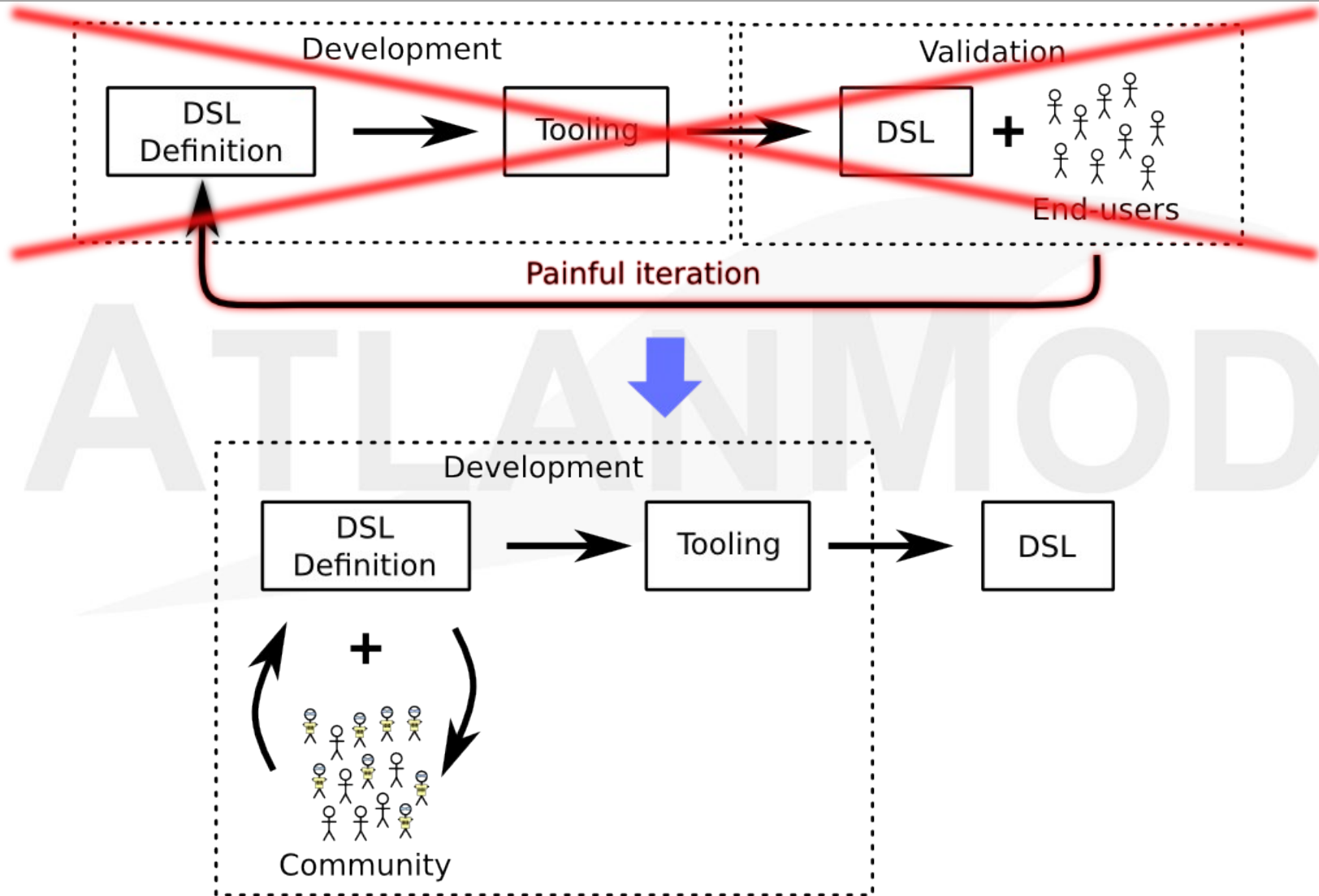
ATLANMOD

Collaboro: Enabling the collaborative definition of DSLs

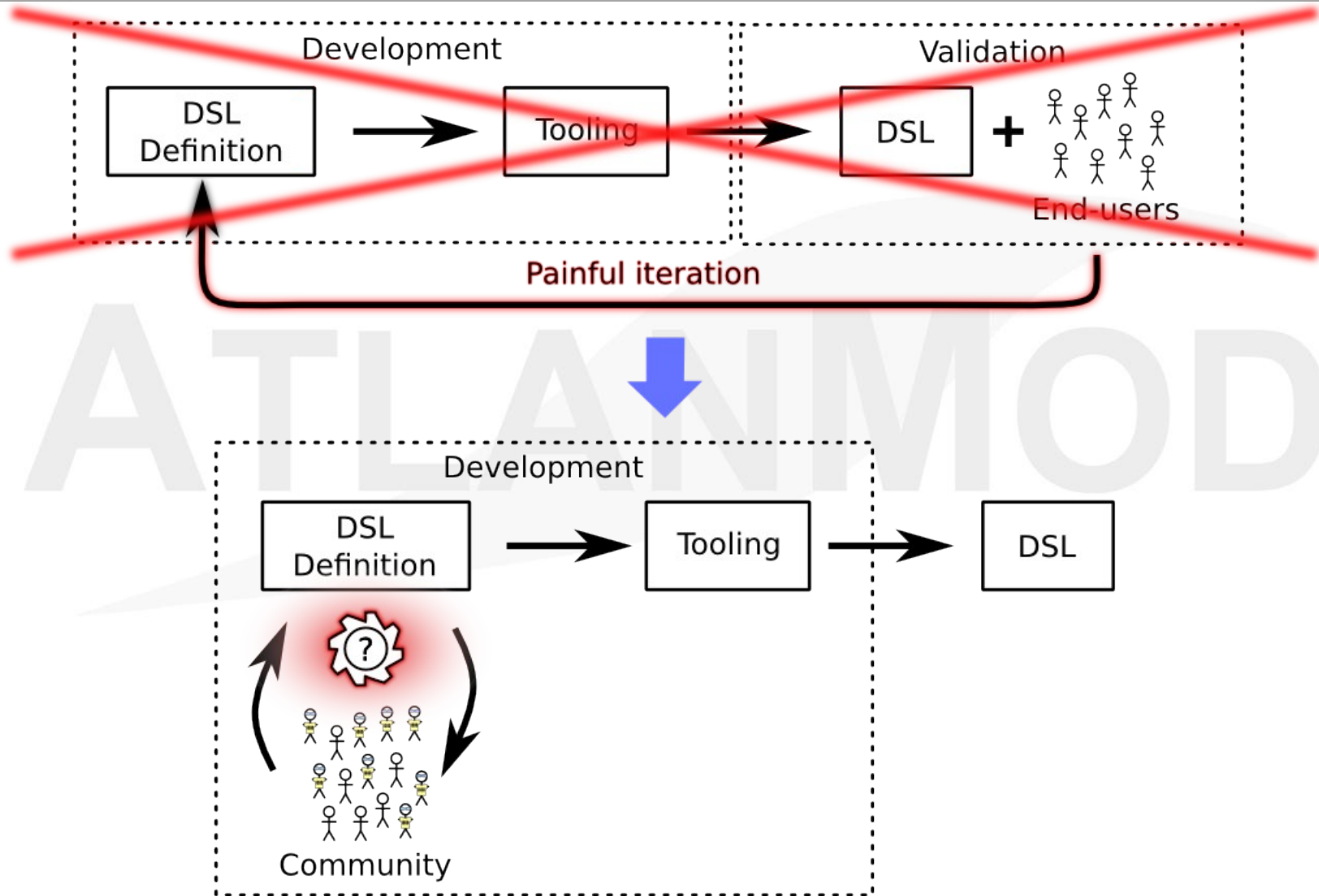


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Collaboro: Enabling the collaborative definition of DSLs



Collaboro: Enabling the collaborative definition of DSLs



Collaboro: Enabling the collaborative definition of DSLs

- What do we **need**?

An infrastructure to deal with the collaborations arising when developing and/or evolving a DSL

- What do we **propose**?

A new tool, called Collaboro, to allow representing and handling proposals, solutions and comments during the DSL development process

- What shall we **get**? Features for...

- Justifying about changes in Ecore models
- Recording related discussions and comments
- Managing the community and voting
- Tracking changes and tracing design decisions

Collaboro: Enabling the collaborative definition of DSLs

- Demonstration link to be provided soon...



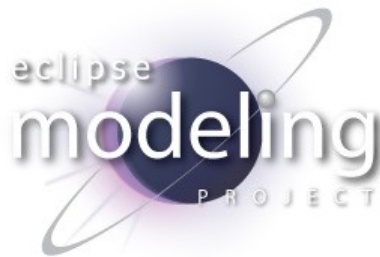
Collaboro: Enabling the collaborative definition of DSLs

- What we want to work on now...
 - Support for remote models and synchronous interactions via CDO
 - Initialization of the DSL first implementation for both textual (e.g. Xtext) or graphical (e.g. GMF) ones
 - Better support for non-technical users (e.g. via a simplified Web-based interface)
- What we also plan to do/explore in the future...
 - Discovering changes by looking to proposed examples
 - Generating examples from existing proposals
 - Improving the decision policies (user right managements)
 - Supporting constraints expressed in the metamodel (e.g. OCL)

Thanks for your attention!

- Collaboro from EclipseLabs

<http://code.google.com/a/eclipselabs.org/p/collaboro/>



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