

Agile Development

StratusLab uses Scrum, an agile software development methodology, to coordinate the evolution of its open-source laaS cloud distribution.

Scrum allows StratusLab to release frequent, highquality increments of the distribution that evolve

Advantages

- New features and improvements in frequent releases
- Continuous feedback informs design evolution
- Users state needs and *adjust priorities* based on real

use of earlier releases

Visible progress through frequent

Challenges

 High level of automation required: build procedures, test

procedures, and production upgrades.

 Functional developments must be divided into single-sprint tasks that can be implemented and

demonstrated in a single sprint

Developers must adapt to incremental

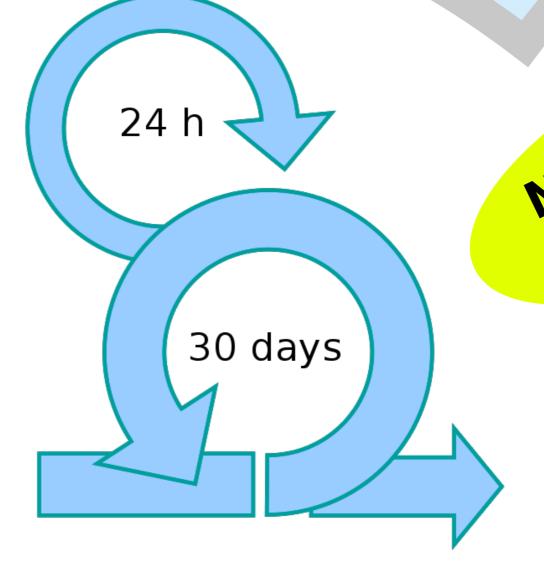
Smoother Efort Effort Peaks Less Risk High Risk Distributed Scrum is even more challenging, relying on **tele- and video-**

conferencing for team meetings to bring the developers from the 6 partners together and on tools like JIRA to replace the post-its of a traditional Scrum board.

Functional requirements are expressed as *user stories*, with each each being implementable in a single sprint. The collection of all unimplemented stories is the **Product Packing**

Product Backlog





Sprint

"Agile Methodolog

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No Release: No Release: Latest Release:

"Waterfall Methoylolog

Working increment of the software

During **Planning** *Meetings*, user stories are reviewed and selected for the sprint. Selected items become Sprint Backlog

Daily Stand-Up Meetings, lasting at most **15** minutes, ensure fluid communication during the sprint. Developers report on work completed in the previous day, planned work for the day, and any

Each sprint concludes with a **Demo Meeting**, where each implemented user story is shown.

Sprint Length: 23 WKS: Sprints: 23 No. Sprints: 23 Impl. stories: 519 **Implemented Stories per Sprint** 38 32 24 23 23 23 18

Build, Test & Deployment Tools

- *Git*: Source code management
- Maven: Uniform build
- framework
- **Nexus**: Build artifact repository • **Hudson**: Continuous build &





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y Desarrollo S.A.







