# Patterns of Requirements related Communication

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#### Introduction

Effective collaboration during Requirements Engineering is essential for project success and includes

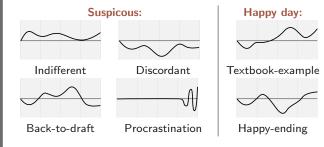
- ► the discussion and negotiation of requirements with different stakeholders,
- deriving, assigning, and scheduling tasks and subtasks from these requirements.

#### Problem:

- Existing requirements management tools offer limited support to analyzing discussions around requirements.
- Practitioners rely on a combination of collaboration tools such as email and issue-trackers.
- ► No overview of the state of the requirements-related discussion.
- ► Lost opportunity in leveraging the wealth of requirements-related communication data available in projects.

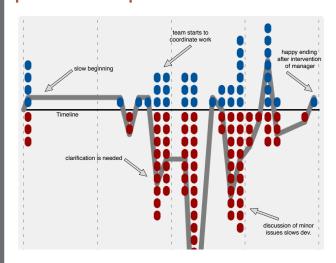
#### Solution

We analyze requirements-driven communication: The ability to automatically detect requirements clarification in this communication (by using machine learning) allows us to identify patterns of requirements clarification.



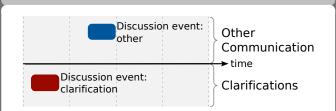
## **Example**

Analyzing the content of requirements-related discussion to allow managers **identifying problematic requirements**.



Example trajectory of the discussion related to a user story in a large, globally distributed software project.

### Legend



### **Voices from Industry**

IBM RTC, VIATeC

Are these trajectories useful?

"[They...] allow me to find the ones I should focus on."
"I need to know who talks there."

Most valuable before and after feature-complete:

"You shouldn't clarify things anymore, then."

# Find out how your project can benefit from this

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