Industrial Adoption Breakout Group

Participants

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Industrial Adoption

- Concrete use cases of MDE in companies
 - Can we find failures of the use of MDE?
 - What was the reason of these failures?
 - Can we find successes of the use of MDE?
 - Why was it successful?
 - Which MDE tools and techniques were used?
 - What added value did it bring?
- Success stories
 - Automotive, embedded systems, telecommunication
 - Web application development: Ruby on Rails, AndroMDA
 - more in the community of Matlab Simulink, and much less in the UML community
- BMW use case of using MDE
 - Use models for formally specifying the system
 - Reduces ambiguity, improves quality of the specification
 - The actual system is developed by third parties
 - Use of AutoSar

Industrial Adoption breakout group

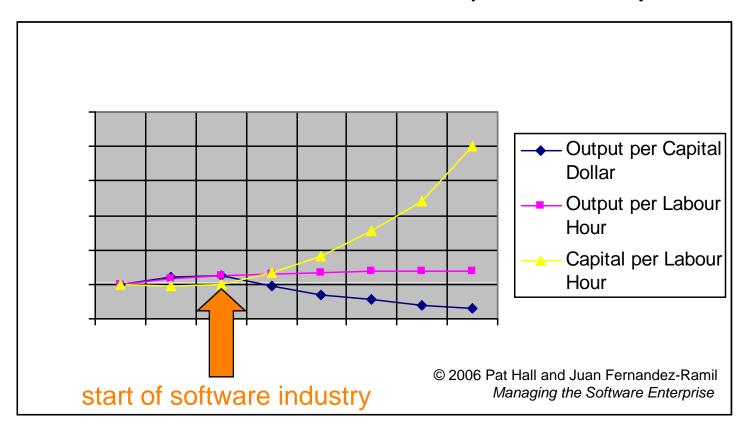
- Why are software companies not using MDE?
 - MDE works for specific problems in specific domains
 - Some companies are using MDE
 - E.g., automobile industry, insurance, telecommunication
 - They always use models in a specific domain
 - A universal modeling language will never work in industry
 - There is a threshold before you can use it effectively
 - Some companies do not use MDE, the only use models for communication
 - Some companies are using software that is decades old (e.g. COBOL in banks), making it very difficult to migrate to MDE technology
 - Technology transfer from academia to industry is very difficult
 - companies need to open up their minds to accept new ideas
 - The only was is by direct contact: "I scratch your back, you scratch mine"
 - Possibility: industrial PhD students => programmes of people in academia going to industry for a certain time and vice versa.

Industrial Adoption

- How can MDE bring value to industry?
 - Possible added value
 - Reduce cost
 - Productivity should be improved
 - Maintenance should be easier
 - Performance should not be sacrificed
 - Problems / inconsistencies can be found earlier in the life cycle
 - Industry needs to be convinced of this added value: can only be done by empirical studies
 - How can we access data from industry? Only by direct contact
 - We need to understand the process that companies use in order to be able to improve those parts of the process that are suitable for MDE

Has software been beneficial for industry?

- Software has not yet lived up to its promises
 - Increase in cost; reduction of productivity



Has MDE been beneficial to industry?

- Does it lead to an increase or decrease of
 - Productivity ?
 - Complexity ?
 - Quality ?
- How to reduce the accidental complexity arising due to MDE techology?
- Need empirical studies to evaluate/assess this