Agile Methods

Ship Happens! - using our practical approach to developing great software

Dr. Till Bay Geschäftsleiter Dr. Michela Pedroni Projektmanager



CONTENT

who we are Company Profile.

what we do Sofware Systems.

how we work Our Process.



GOALS: you will learn...

what agile methods are

how they can be put to practice

that agile methods ≠ no process



About Comerge AG



In 2008

Founded by Till Bay and Bernd Schoeller.

- > Official ETH Spin-Off
- > Constant growth in the last 3 years
- > Currently 12 employees



About Comerge AG



- PEOPLE
- > 8 software engineers (ETH Zürich, FH)
- > 1 Art Director / Designer
- > 1 Administrative Staff
- > 1 Apprentice
- > 1 Advisor



About Comerge AG



Software you like

- > Business Software: Eclipse Rich Client Platform
- > Mobile: iOS & Android
- > Web: Google Web Toolkit, J2SE, Drupal



Why? We believe in code.



We believe in code, not in

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We want to see IT.

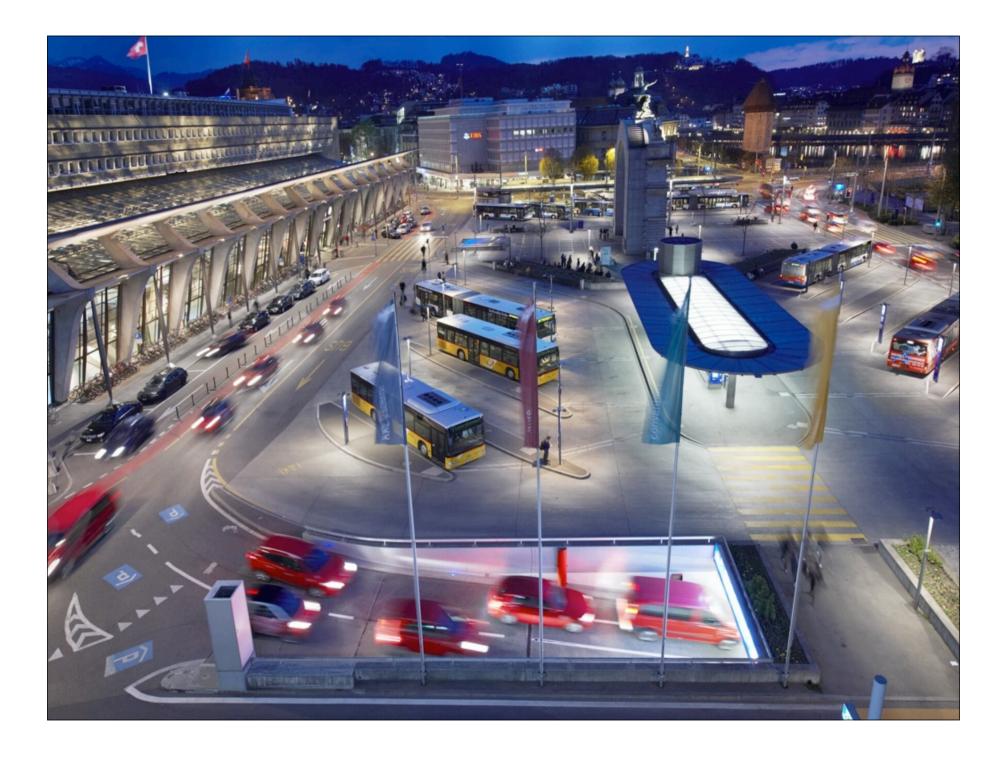
- > Meaningful systems are too complex to specify
- > We will always forget something, so we make sure we're fit to add stuff and change stuff anytime
- > Great challenges require great tools and great people

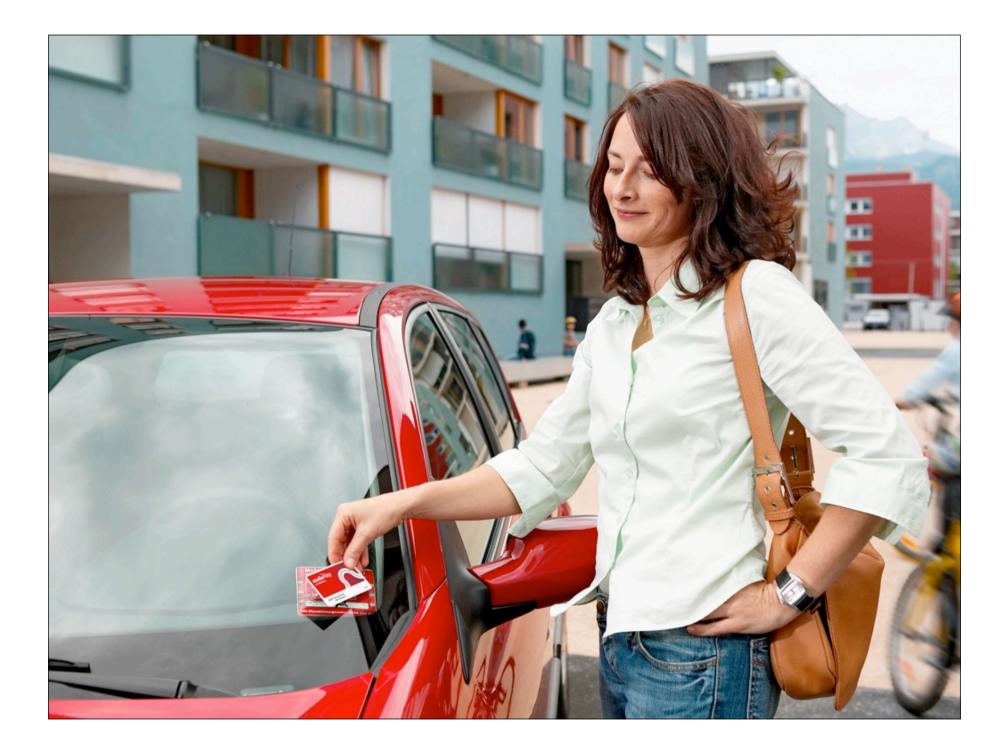








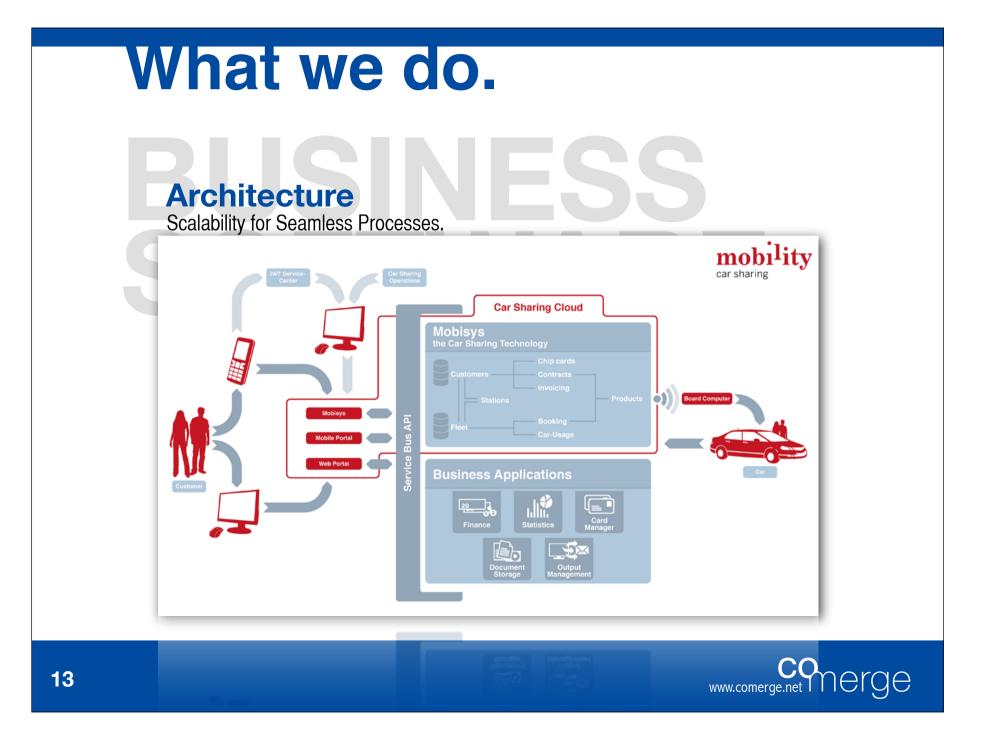




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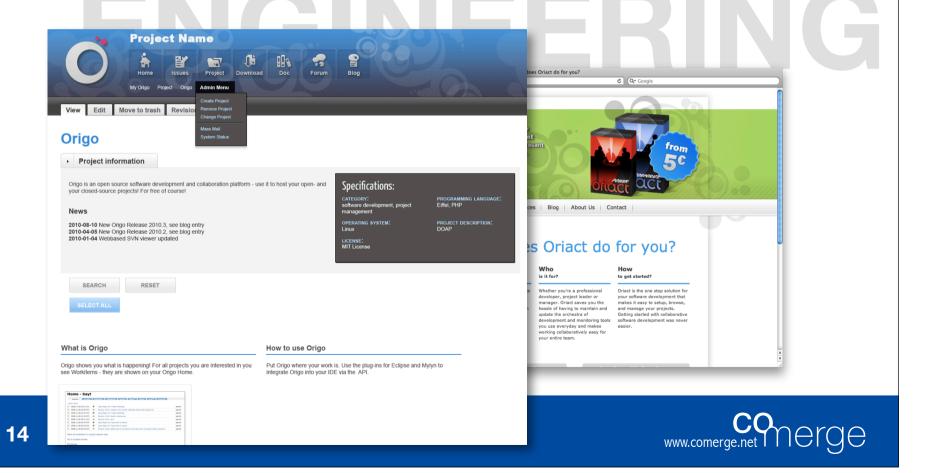
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What we do.

Origo

Cloud-based Agile Software development platform (more than 17'000 users)





GOALS: you will learn...

→ what agile methods are

how they can be put to practice

that agile methods ≠ no process



Origins

- > Erich Gamma IBM Reasearch /Ubilab (former IT lab of UBS)
- > Kent Beck <u>http://agilemanifesto.org</u>



esign Patterns

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over processes and tools Working software over comprehensive documentation Customer collaboration over contract negotiation Responding to change over following a plan

> That is, while there is value in the items on the right, we value the items on the left more.



The ingredients

- > get customer involved
- > build constantly
- > deliver tested quality
- > talk face-to-face
- > everybody should be able to keep the pace
- > embrace change

- > automate technical excellence
- > maximize the amount of work not done (simplicity!)
- > self-organizing teams
- > reflect on the way you work



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→Agile Software Development!



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In practice

- > timeboxed iterations
- > user stories
- > self organizing teams
- > daily scrum
- > test driven
 development

- > continuous integration
- > shipping process
- > peer reviews
- > retrospectives
- > parties and lifestyle



In practice

- > timeboxed iterations
- > continuous integration
- > user stories > shipping process
- > self organizing teams
 > daily scrum
 TOOLS, > retrospectives
 > test driven
 tool Sarties and lifestyle
- > test driven developmen



Timeboxed Iterations

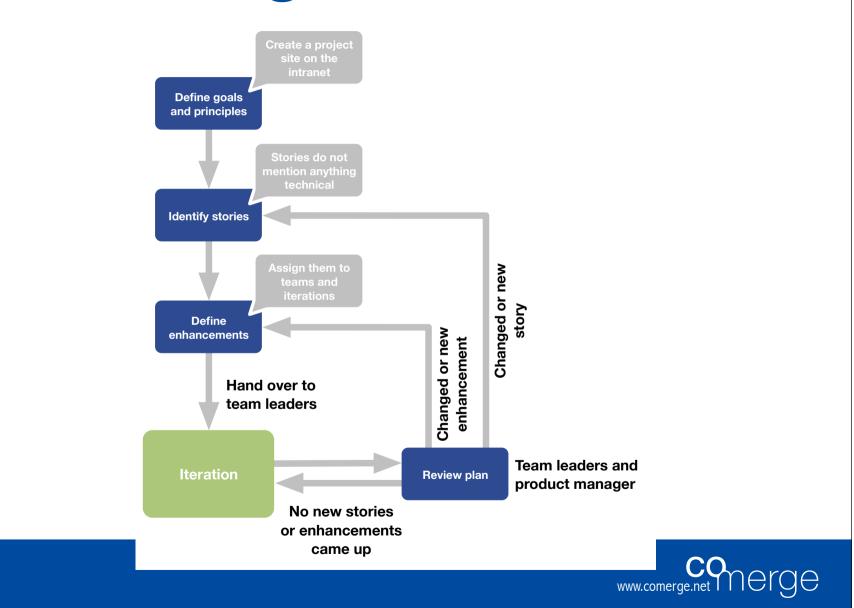
- > Planning: 2-3 days
- > Implementing: ~4 weeks
- > Testing: 1 week

- > Always the same length
- > No asynchronous requests
- > Ship happens at the end of the iteration



Planning Iterations

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Gathering User Stories

> As a [Describe Role of Person], I want to [describe activity], so that [add a context and a reason why this is of value]

> Example:

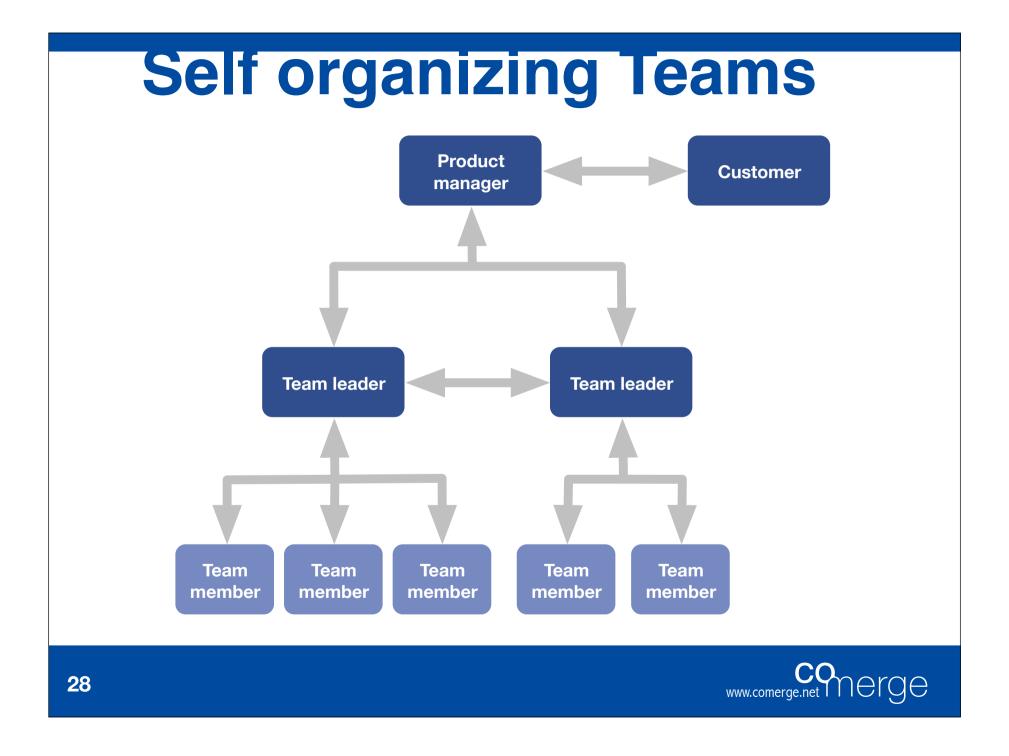
As a Mobility customer, I want to be able to use my smartphone to extend my current reservation, while being in a meeting.



Gathering User Stories



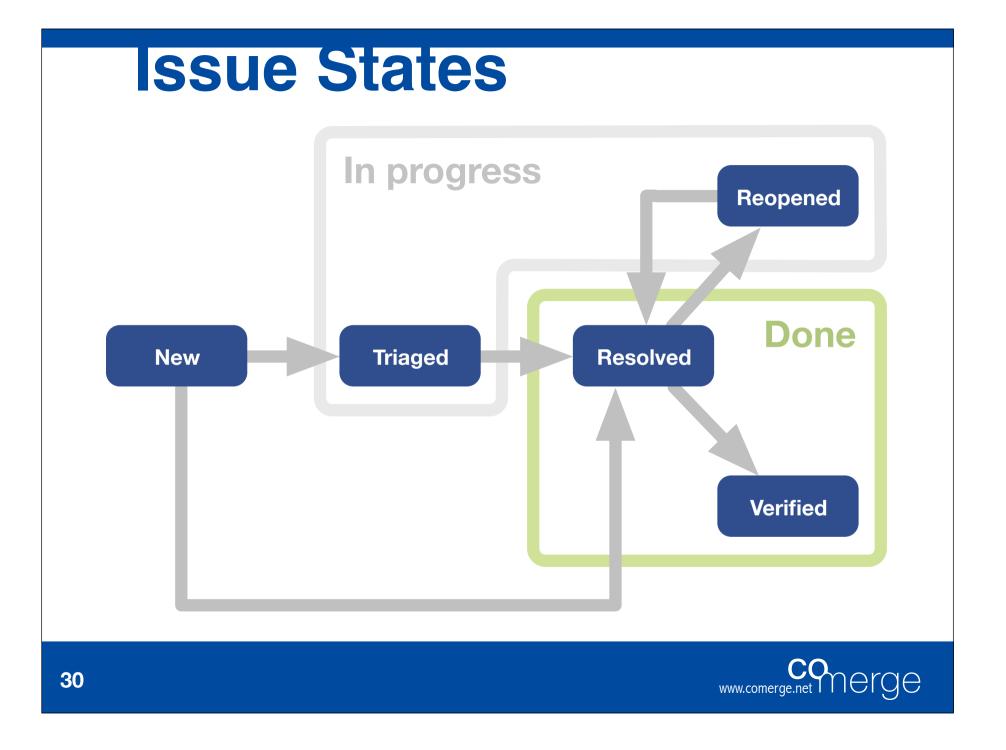


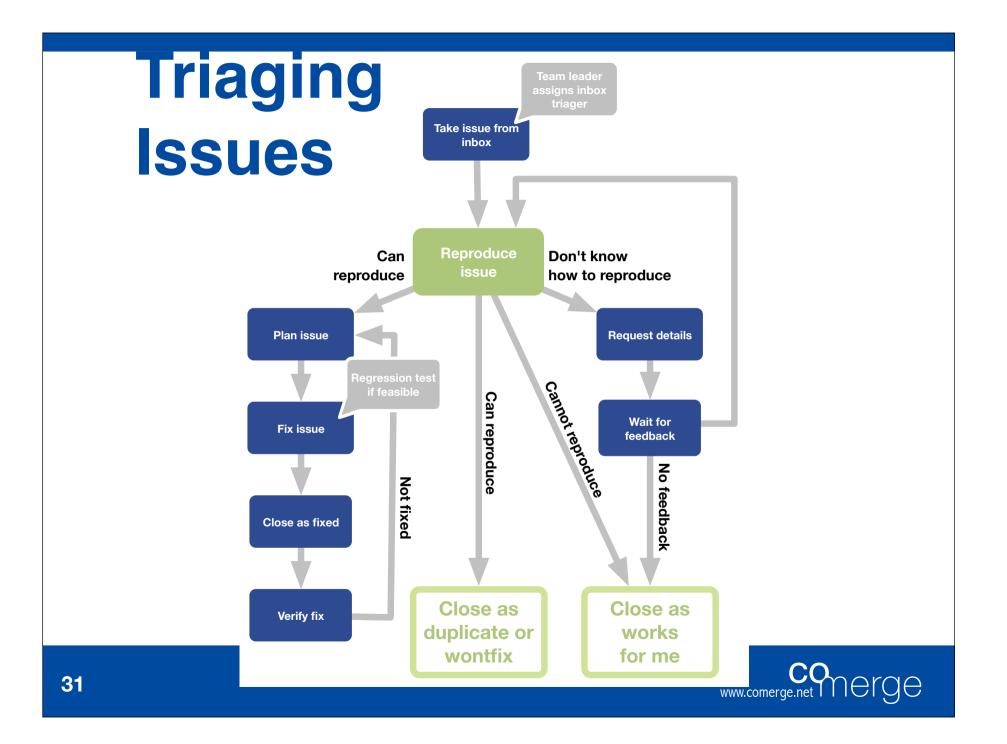


Working with Issues

- > Team Leader triages issues and assigns to team members
- > Issues are owned by teams together
- > For everything we do, we create an Issue

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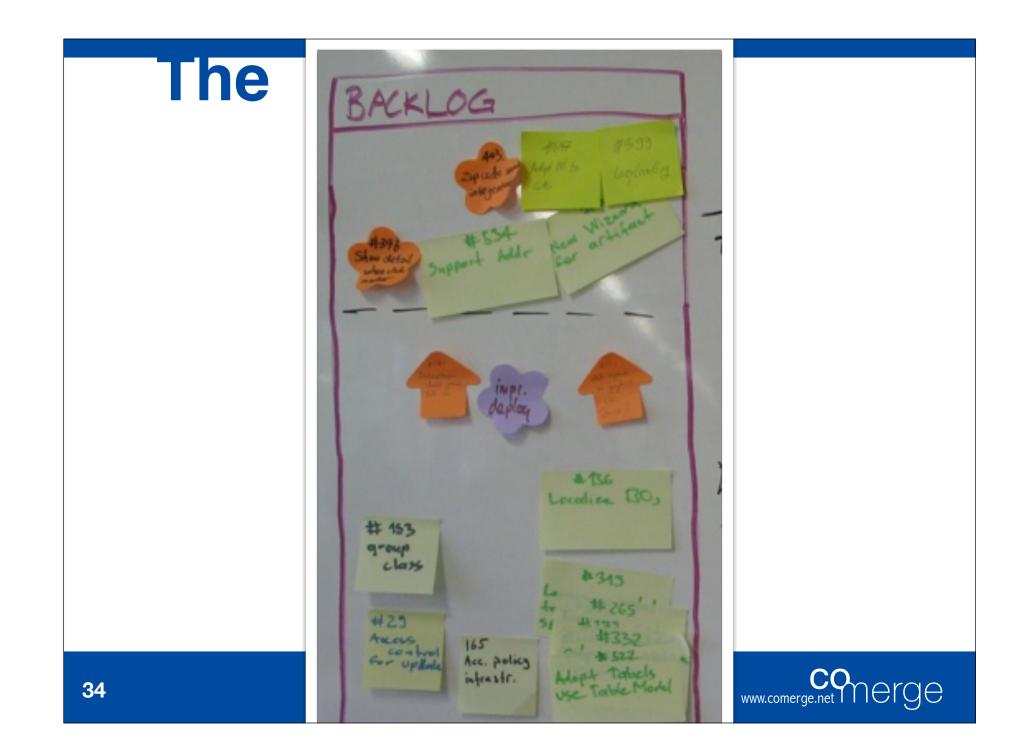


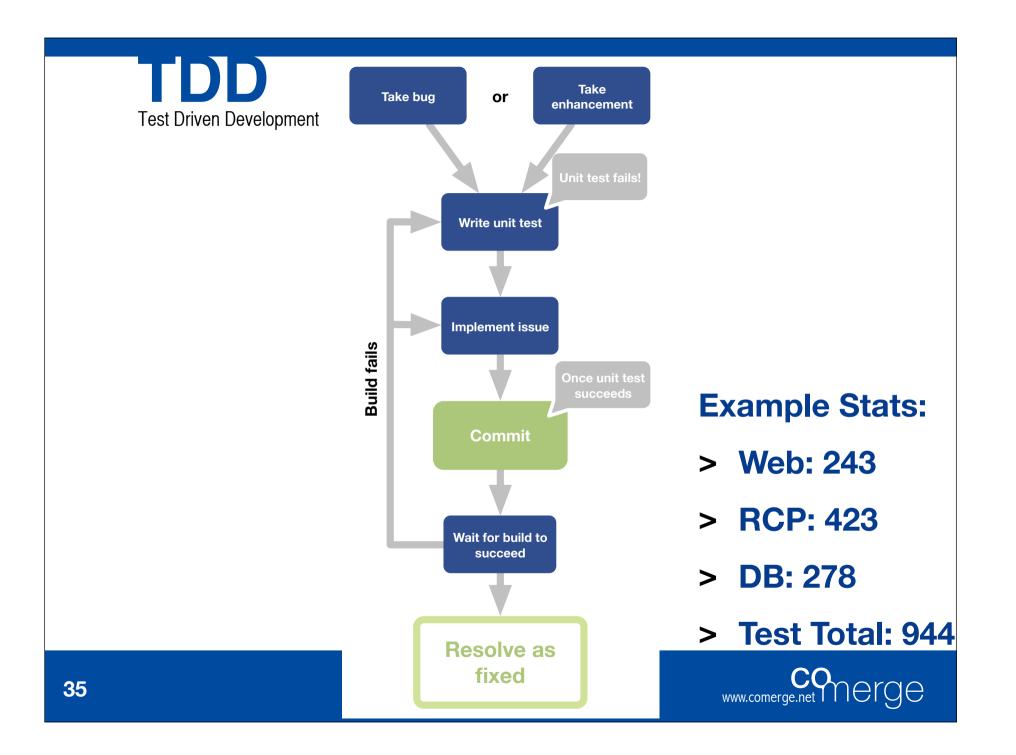


The Scrum Board





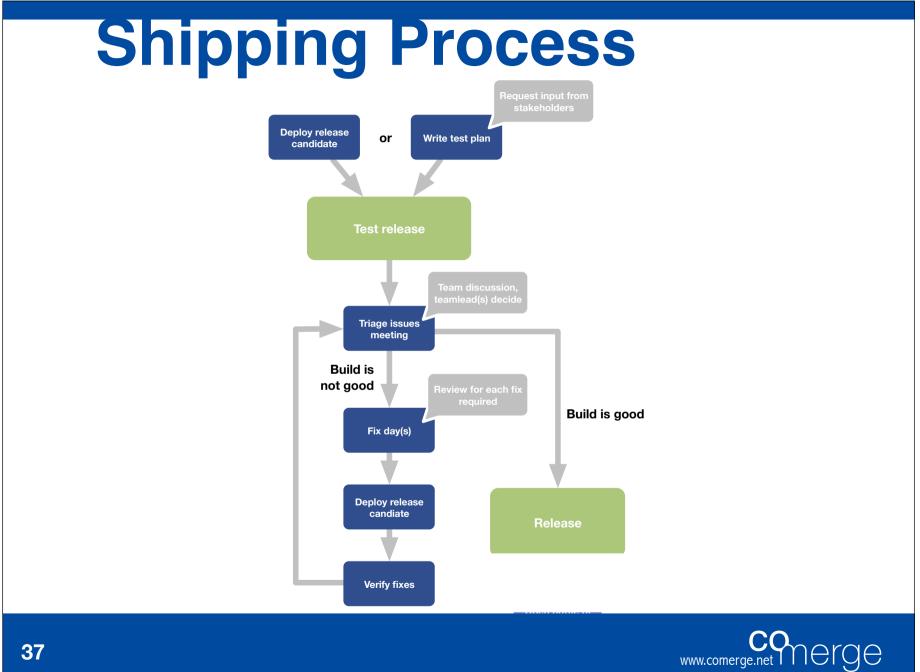




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#1209 Apr 15, 2011 2:31:30 PM			
#1208 Apr 15, 2011 1:50:48 PM	Latest Test Result (no failures)		
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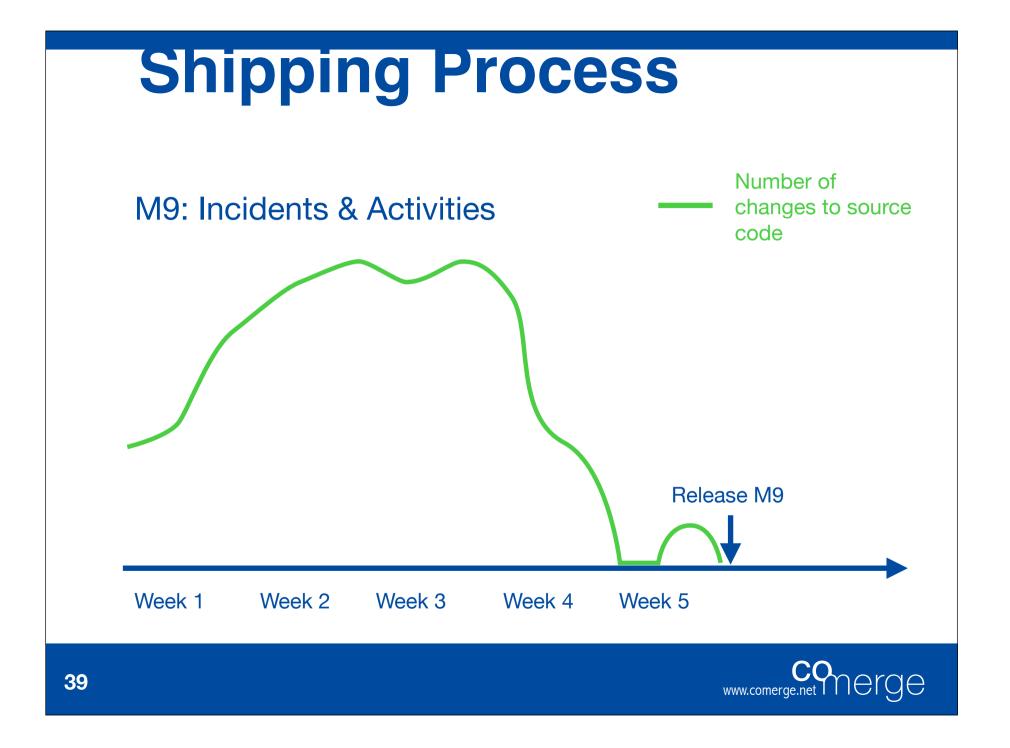


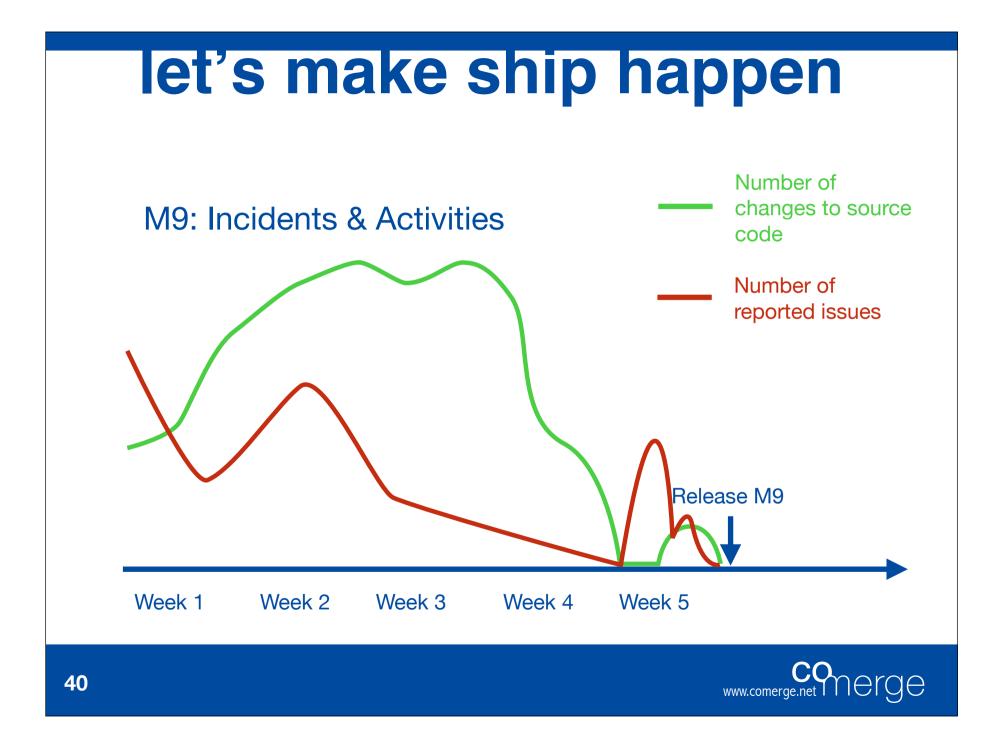


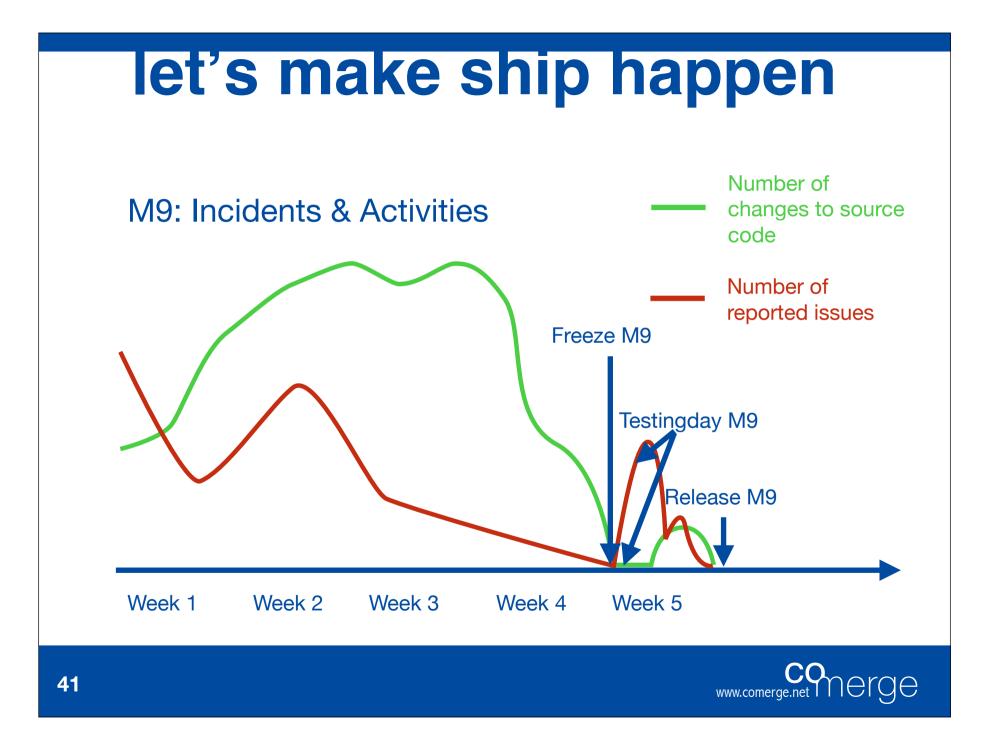




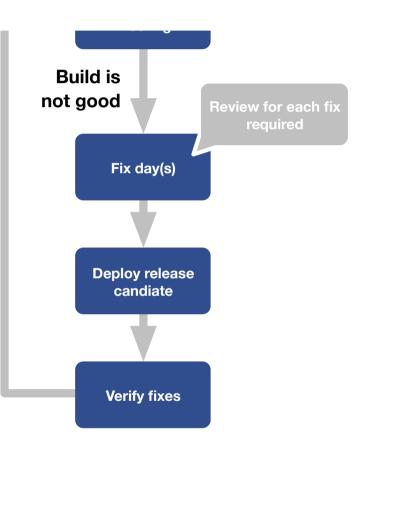




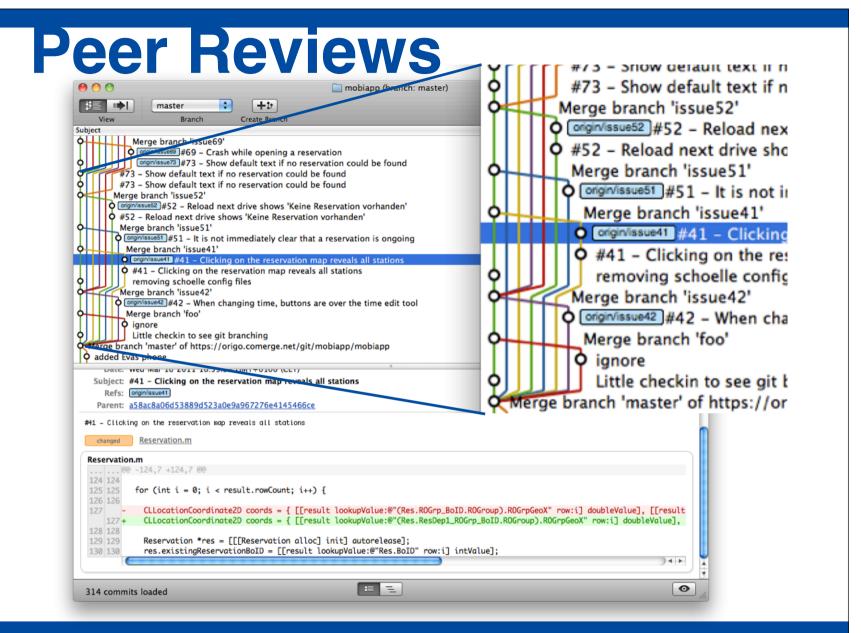


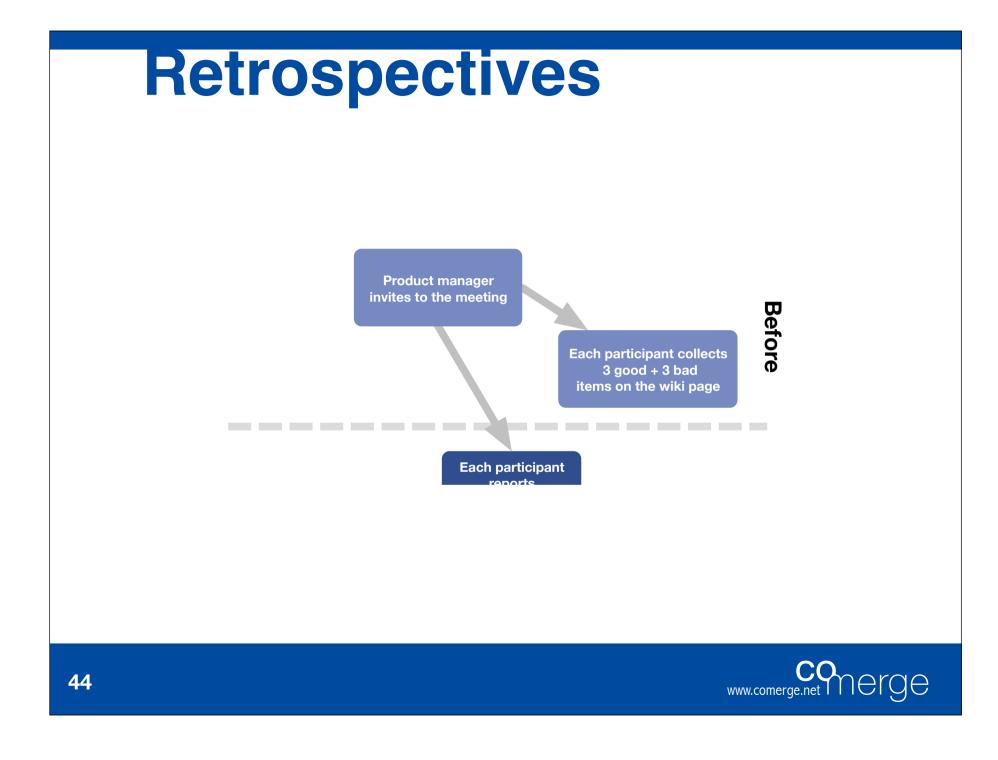


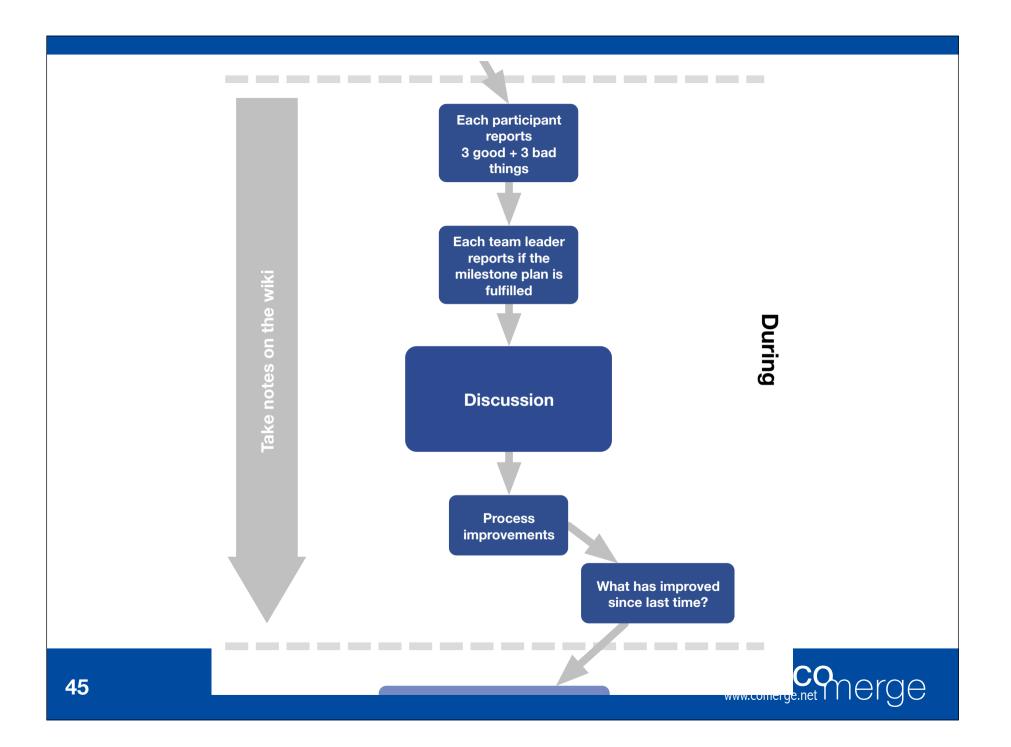


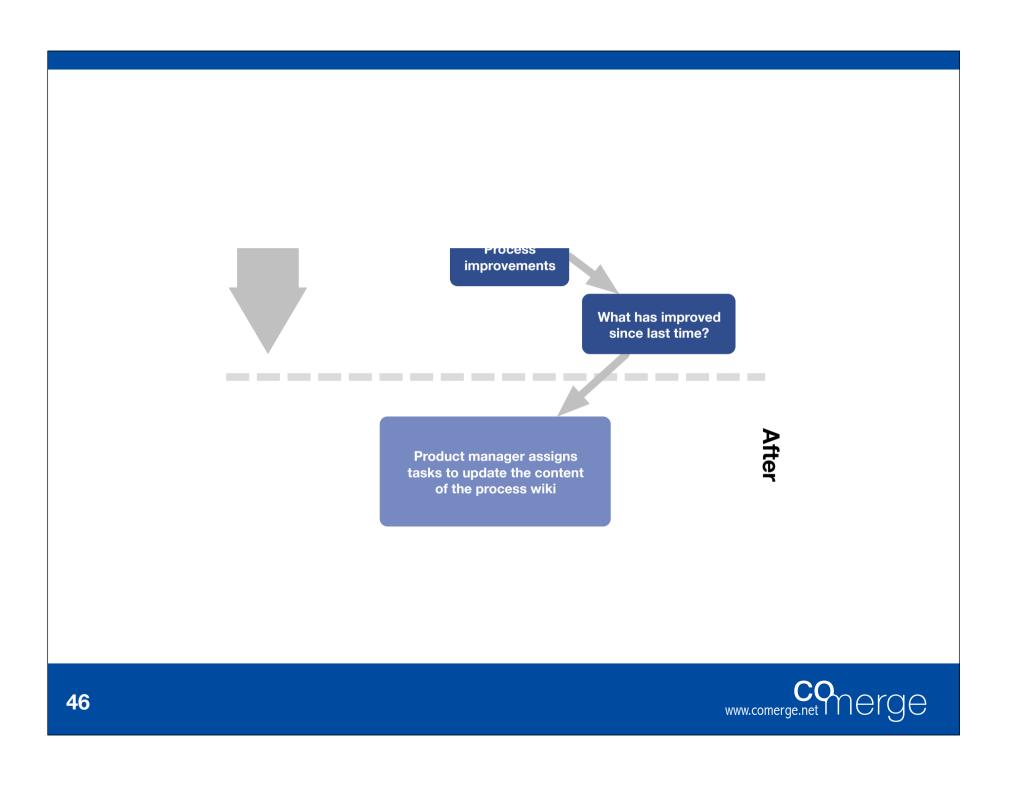


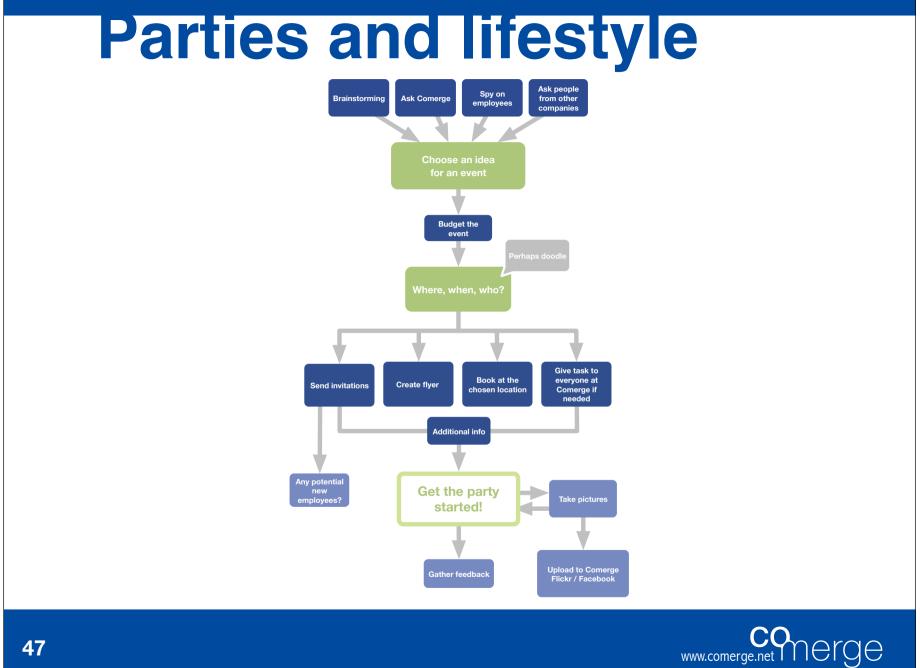
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Our Process

> agile process

(embrace change)

> always a concrete product

(a release is a feature your software must have)

> iterations bring transparency (get used to working)

> automated testing

(build on your mistakes, lay the ground for change)

> get things done

(focus on the interesting things)



Troublemakers? ROBLEMS **Shared resources** Last minute feature-requests **Bad testers** What are the solutions?



Troublemakers?

I HE SOLUTIONS

Shared resources

- > Participation in Scrum-Meetings
- > Write down all management tasks as issues
- > Bring them to meeting
- > Earn respect



Troublemakers?

THE SOLUTIONS

Last minute feature requests

- > Trade for something else
- > Implement ways to avoid them, e.g. by having a constant flow of releases coming



Troublemakers? THE SOLUTIONS

Bad Testers

- > Improve process
- > Automate more of the testing process





- > delivery on time
- > quality software





Pick two, manage with the third!

GOALS: you will learn...

what agile methods are

how they can be put to practice

→ that agile methods ≠ no process



Co-Pilot

What you get of the book:

- > Project management patterns
- > How to use tools to enable people
- > What to do when things go wrong



CONCLUSION

We showed how to use tools and process to deliver software on time with quality.

Without getting killed by the tools or the doc.

And without killing the people!

Please ask us about the details.



YUU



Questions? Need a job? Look for an internship?

> Contact us! michela.pedroni@comerge.net

till.bay@comerge.net

