

# DOSE/GSD Concretized

Distributed Outsourced Software Engineering/  
Global Software Development  
Case Studies, Lessons Learned, Best Practices

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# Concrete Examples

- lessons learned and best practices from
  - classroom, academia, distributed research teams, open source software with partners in industry, academia, and enthusiastic individuals, and industry
- my main point: finding and using what works is personal and tuned to your (team, time, situation, product)
- others' best practices are just that—borrow them and try them out yourself

# Presentation Style

- not a lot of slides
- screencast will be uploaded to Vimeo
- real working examples from web sites, projects, and software

# Project Management

- Gantt charts
- OmniPlan and Gannter
- abstract plan, introduce milestones, tasks, perform dependency analysis, estimate effort, determine risk, assign responsibilities, schedule

# Daily Work

- projects, goals, tasks
- task-focus using tickets and todo lists
  - IDE task lists, Mylyn, org-mode, annotations, agile externalizations
- commit messages
- RSS feeds
- calendar
- Getting Things Done (GTD)

# Process

- project overview
- informal BON
- (formal BON)
- contracted types
- hand-written unit tests
- development against quicktests
- validation and verification

# Communication

- daily to weekly updates
- ChangeLogs
- RSS feeds
- continuous integration and regression testing via Hudson and Hawk
- social pressure via build turkey
  
- Histogram system as case study

# Meetings

- video chat that turns into a shared screen
- every meeting has an agenda, minutes, promises (via new tickets and personal todos), and periodically, a plan update
- screencast as minutes

# URLs

- <http://eclipse.org/mylyn/>
- <http://www.omnigroup.com/products/omniplan>
- <http://orgmode.org/>
- <http://trac.edgewall.org/>
- <https://github.com/>
- <https://sourceforge.net/>
- <http://vimeo.com/>
- <http://formalmethods.insttech.washington.edu/software/jmlunitng/>
- <http://kindsoftware.com/products/opensource/Beetlz/>
- <http://kindsoftware.com/products/opensource/BONc/>
- <http://www.davidco.com/about-gtd>

# URLs

- [http://  
research.microsoft.com/  
en-us/projects/pex/](http://research.microsoft.com/en-us/projects/pex/)
- <http://pex4fun.com/>
- [http://  
research.microsoft.com/  
en-us/projects/pex/  
publications.aspx](http://research.microsoft.com/en-us/projects/pex/publications.aspx)