

Distributed Software Development



13-12-03



1

MÄLARDALENS HÖGSKOLA



The Development Group

Real-Time Bridge Monitoring Status Report 2



Overview



- Team Organization
 - The Development Group
 - Roles
 - Ghazaleh
- Project Status
 - Actual Project Plan
 - Actual Architecture
 - Package Dependencies

Overview



- Meetings
 - Group meetings
 - Customer meetings
 - Supervisor meetings
- Experiences
 - Effort
 - Problems and solutions
 - Positive experiences
- The web site

Team Organization



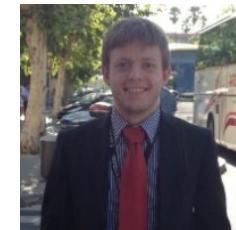
- The Development Group



Andrea Bottoli (PoliMi)



Lorenzo Pagliari (PoliMi)



Marko Brčić (FER)



Dzana Kujan (MDH)



Jörn Tillmanns (MDH)



Miraldi Fifo (MDH)



Nikola Radisavljevic (MDH)

Team Organization



- Roles

Name	Initials	Responsibility (roles)
Andrea Bottoli	AB	Project Manager
Dzana Kujan	DK	Team Leader
Marco Brčić	MB	Documentation Manager
Lorenzo Pagliari	LP	Design Manager
Miraldi Fifo	MF	Testing Manager
Jörn Tillmanns	JT	Database Manager
Nikola Radisavljevic	NR	Integration Manager

Team Organization

- Ghazaleh
 - She decided to leave the group after discussing about her situation with our supervisors



Project Status



- Actual Project Plan (I)
 - Where we are and what we have to do

Project Status

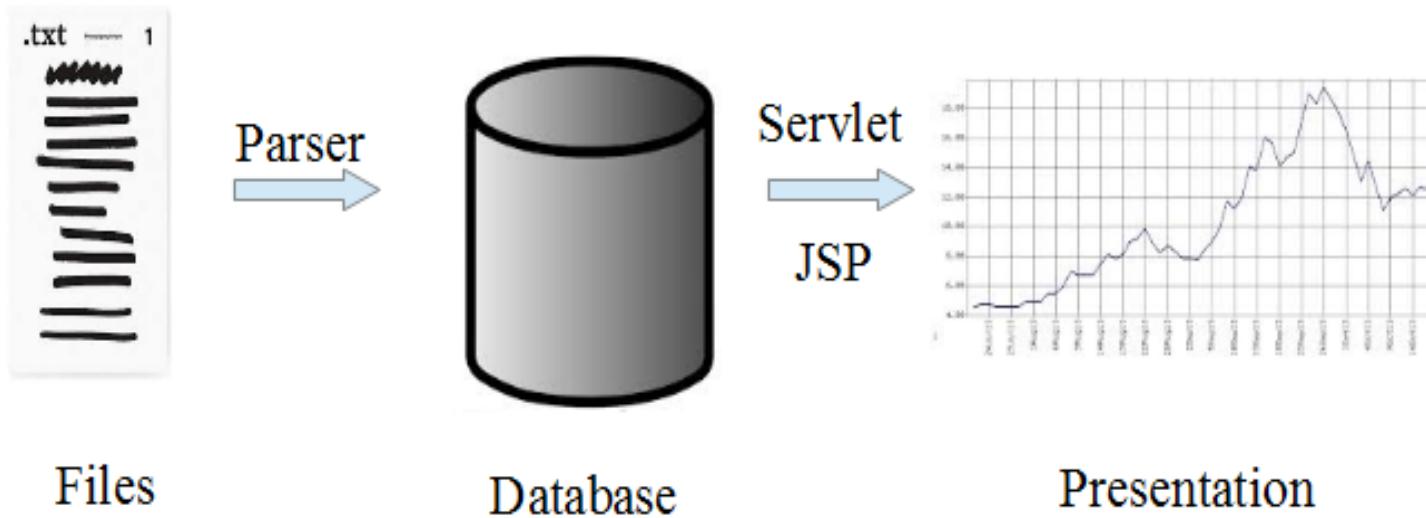


- Actual Project Plan (II)
 - Alpha Prototype
 - Database implementation
 - Scheduler: periodically calls the parser
 - Parser: parses the .txt files and stores in database
 - Webpages
 - Website is running on the VM
 - Acceptance test

Project Status



- Actual Project Plan (II)
 - Alpha Prototype



Project Status



- New Requirements
 - Conform to NTC 2008 and EU 305/2011
 - Technical Standards for Constructions
 - Law in Italy to conform to the European Directive EU 305/2011
 - Part of European Directive 86/106/CEE
 - CPD (Construction Products Directive)
 - Defines a standard domain in which every component of a structure can be without nor severe changes on its state from a static point of view

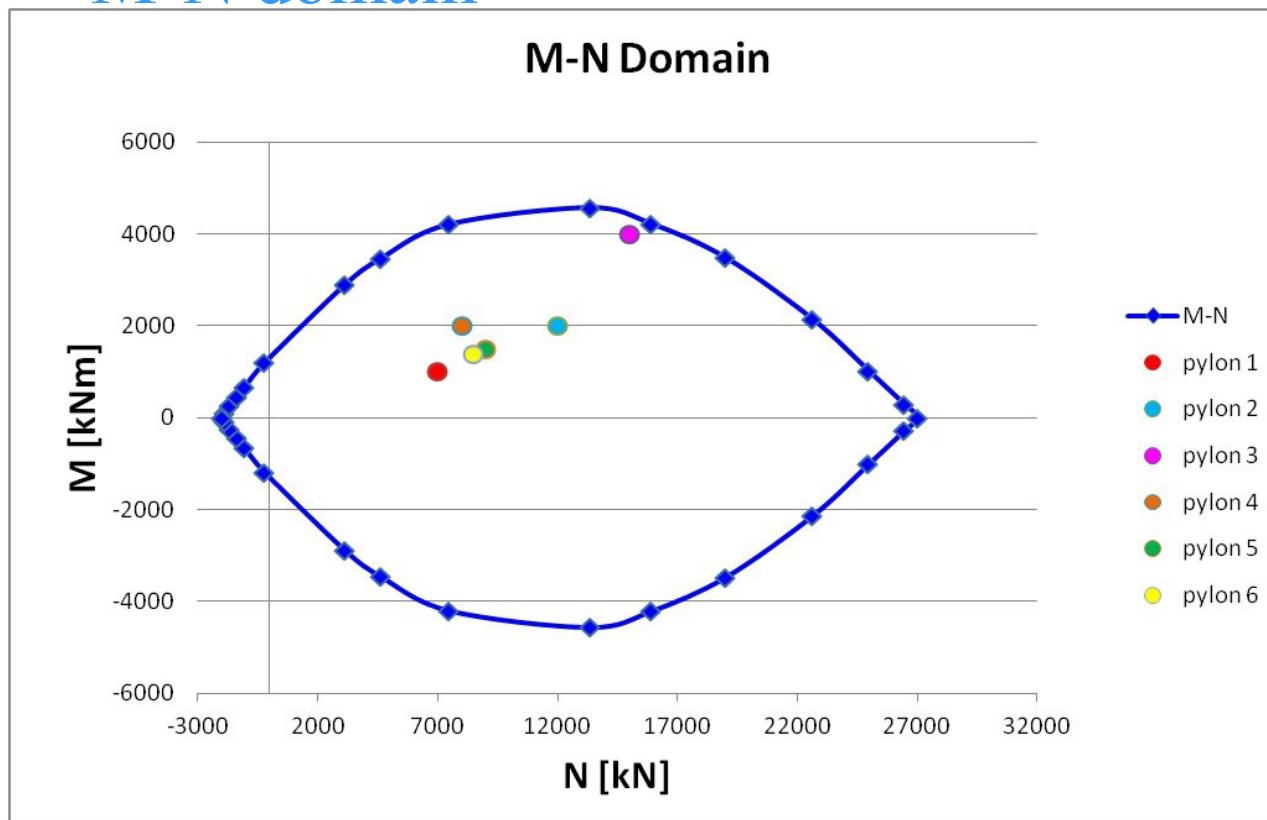
Project Status



- New Requirements
 - << Tell if we'll take them in consideration>>
 - << Tell what we have to change to conform to the new requirements>>
 - << Tell what this thing entailed for the system>>
 - << I thought to anticipate this part in the Project Status section, between Alpha and Beta prototype sub-sections...what do you think about this?>>

Project Status

- New Requirements
 - M-N domain



Project Status

- New Requirements
 - <<NEW MOCKUPS>>

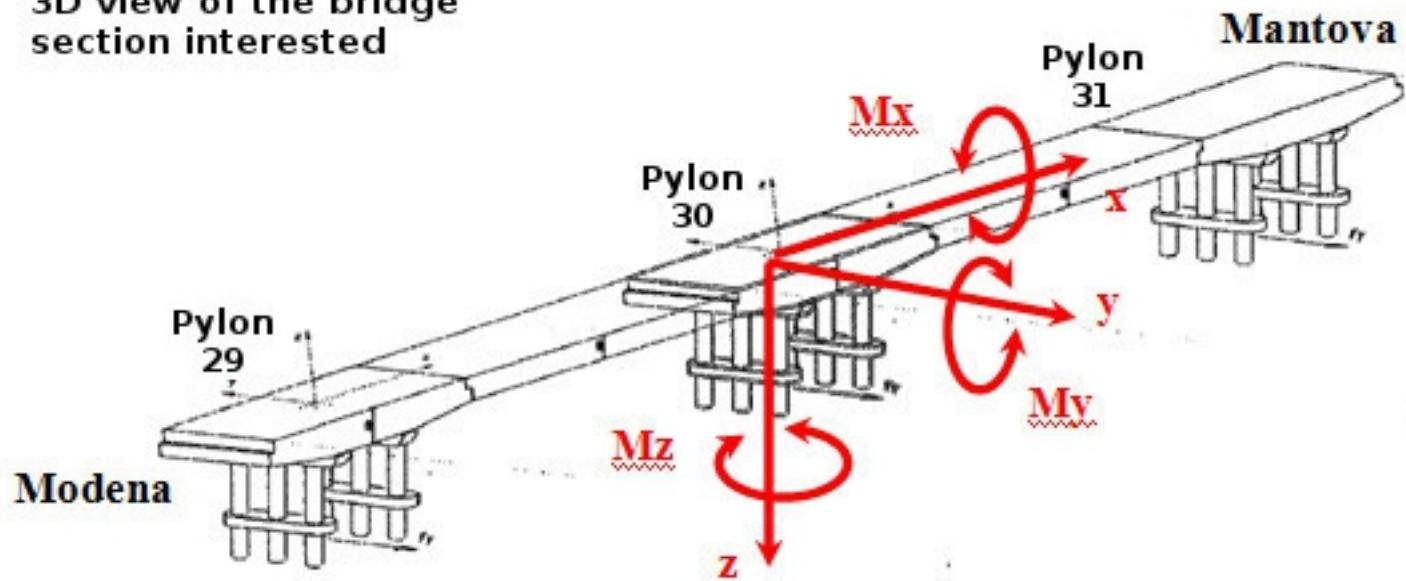


Project Status

- Actual Project Plan (III)
 - Beta Prototype

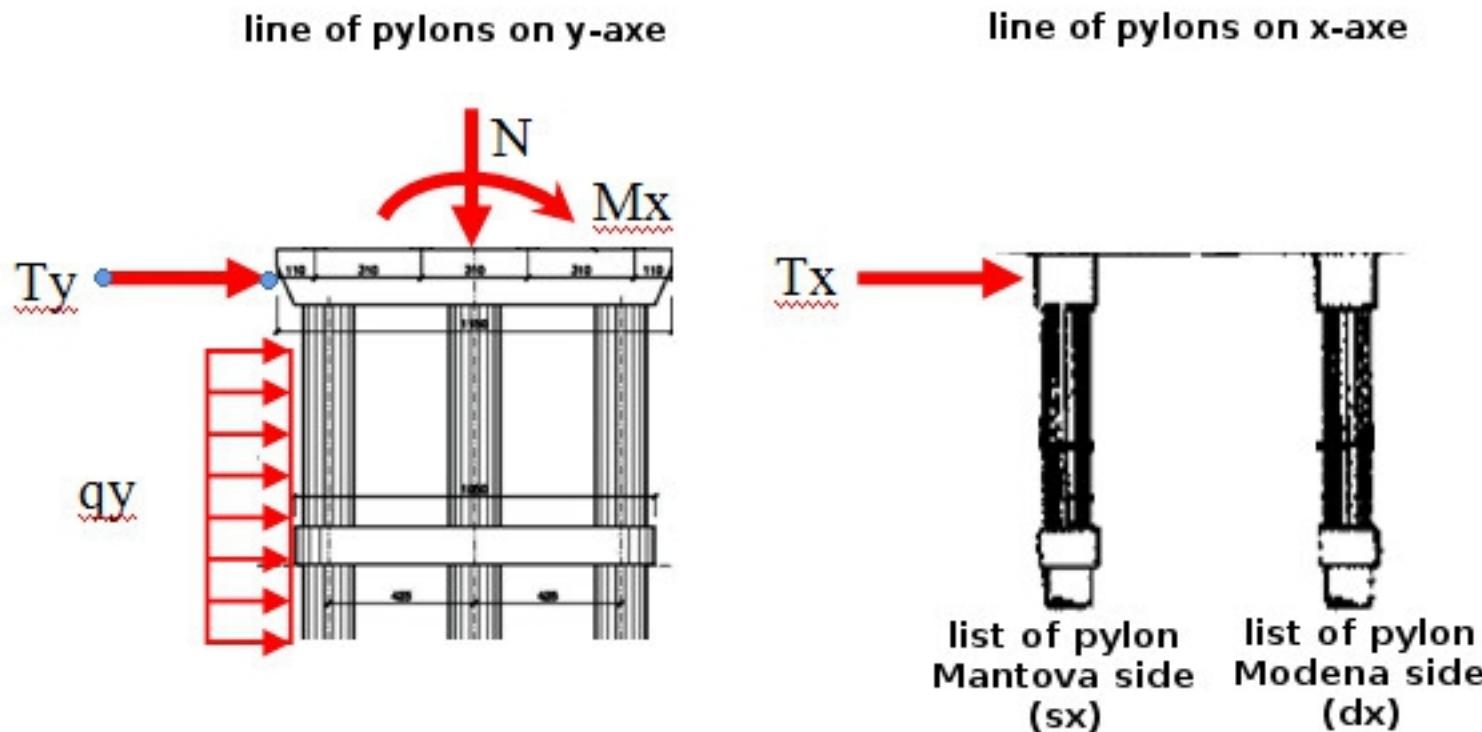


3D view of the bridge section interested



Project Status

- Actual Project Plan (III)
 - Beta Prototype

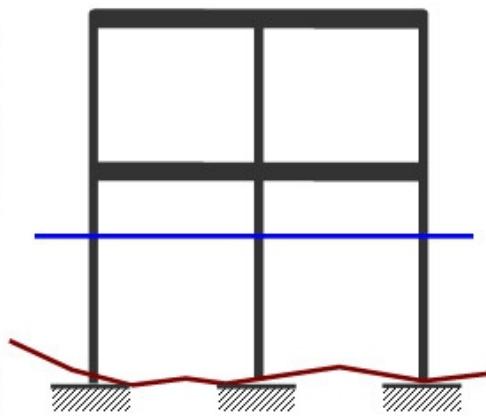


Project Status

- Actual Project Plan (III)
 - Beta Prototype



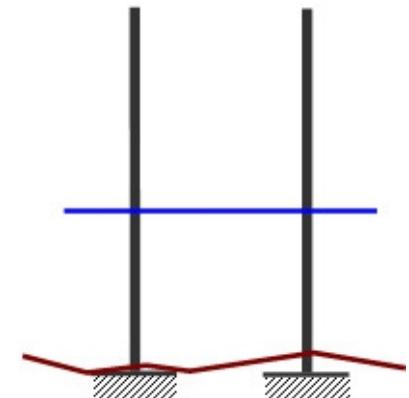
Stack 31

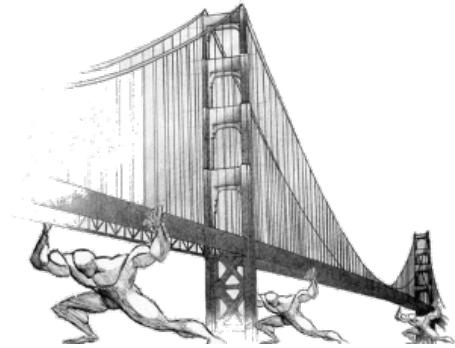


Stack 30



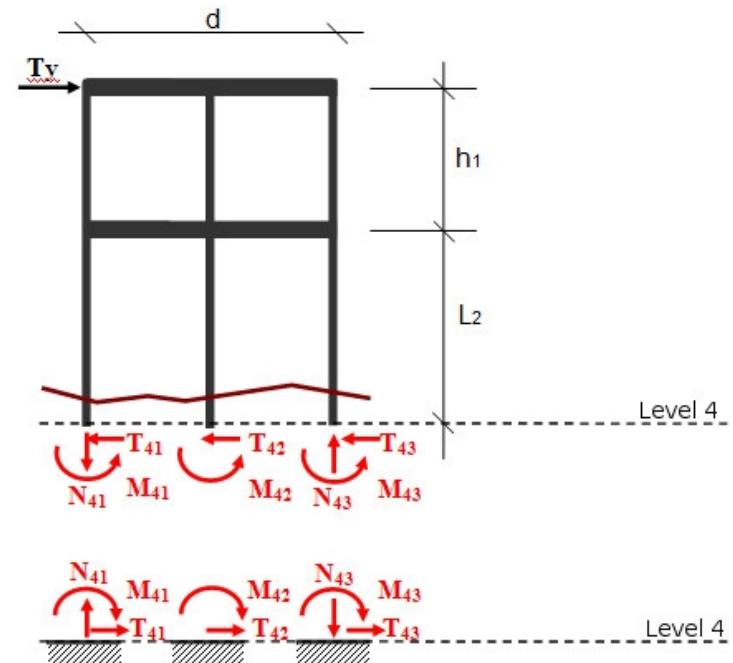
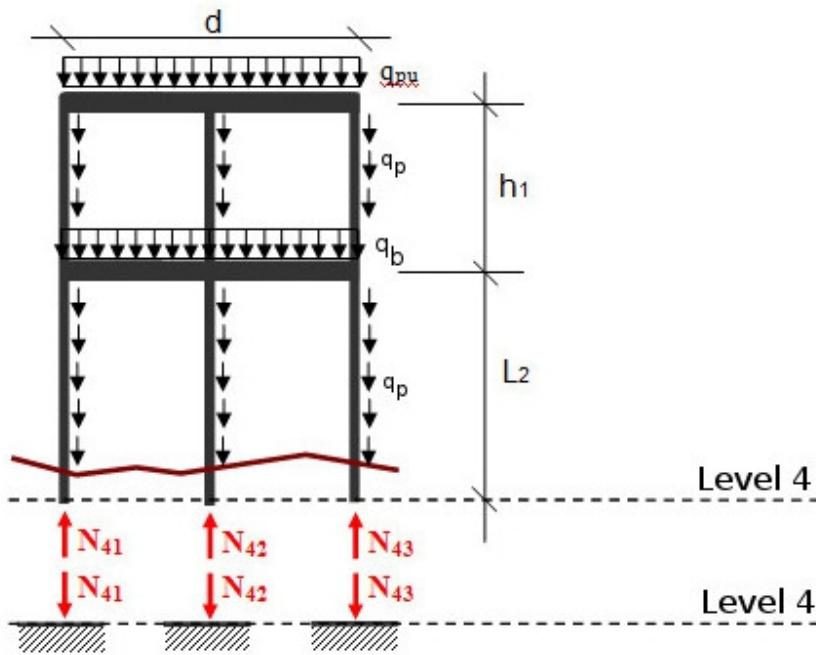
Stack 29





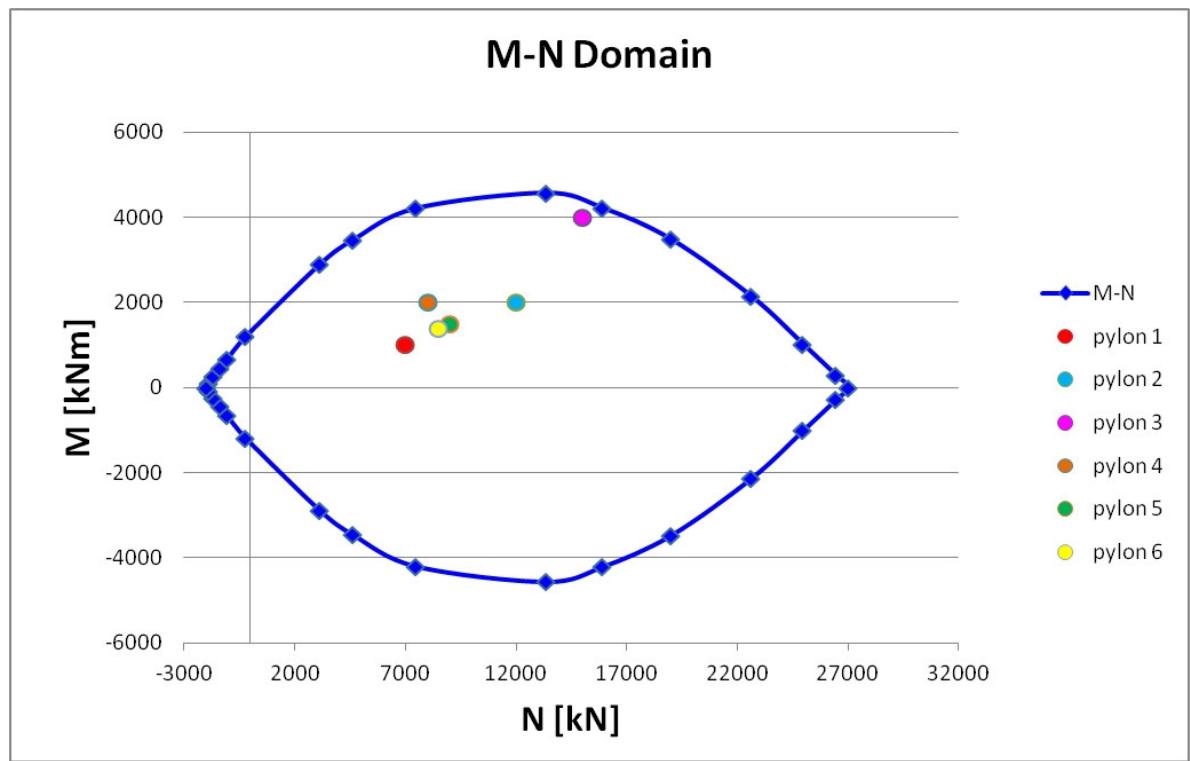
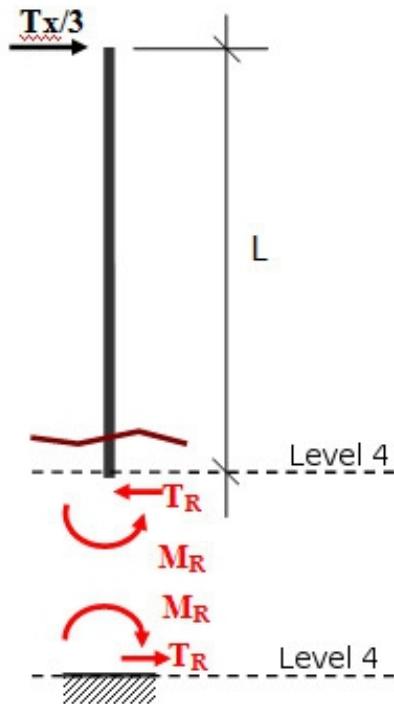
Project Status

- Actual Project Plan (III)
 - Beta Prototype



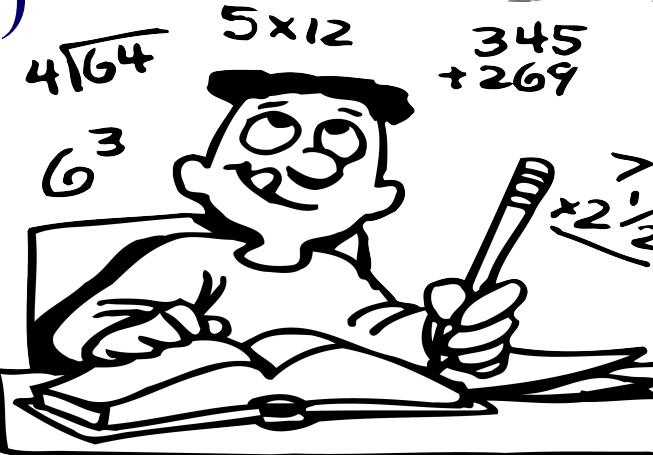
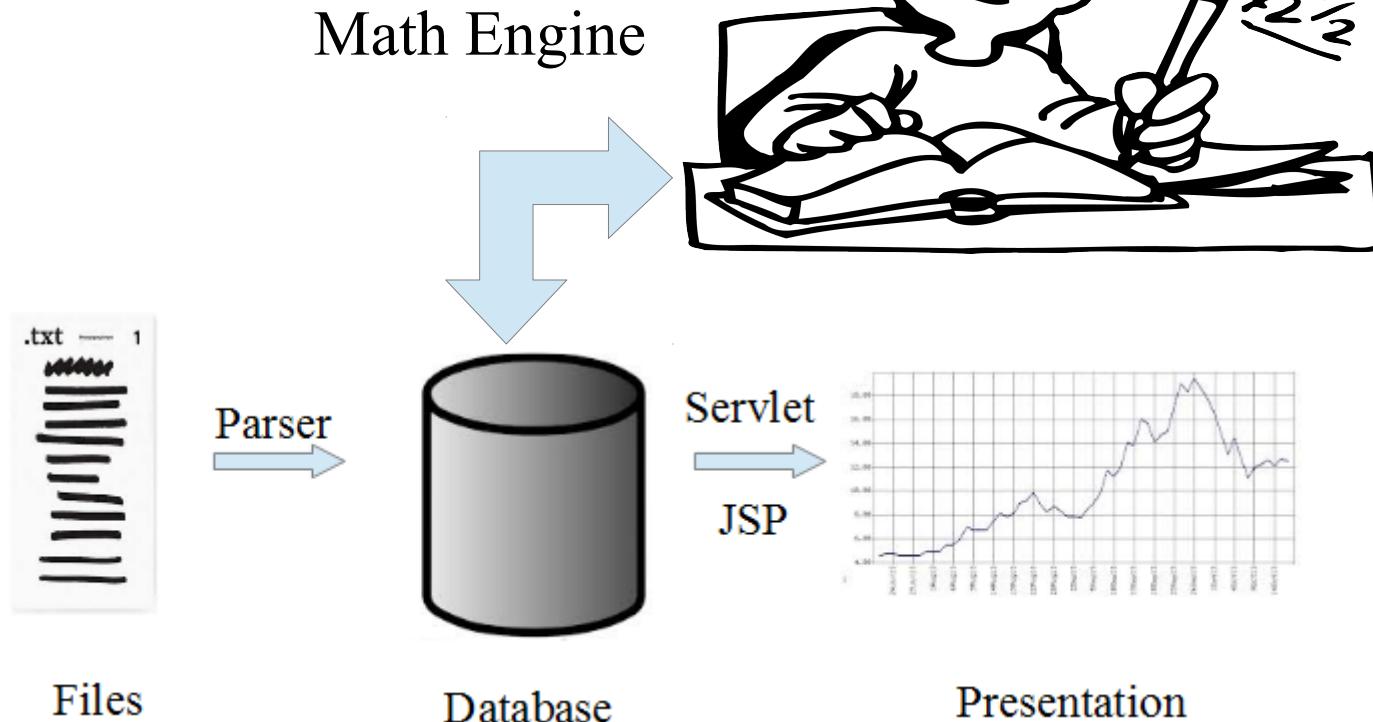
Project Status

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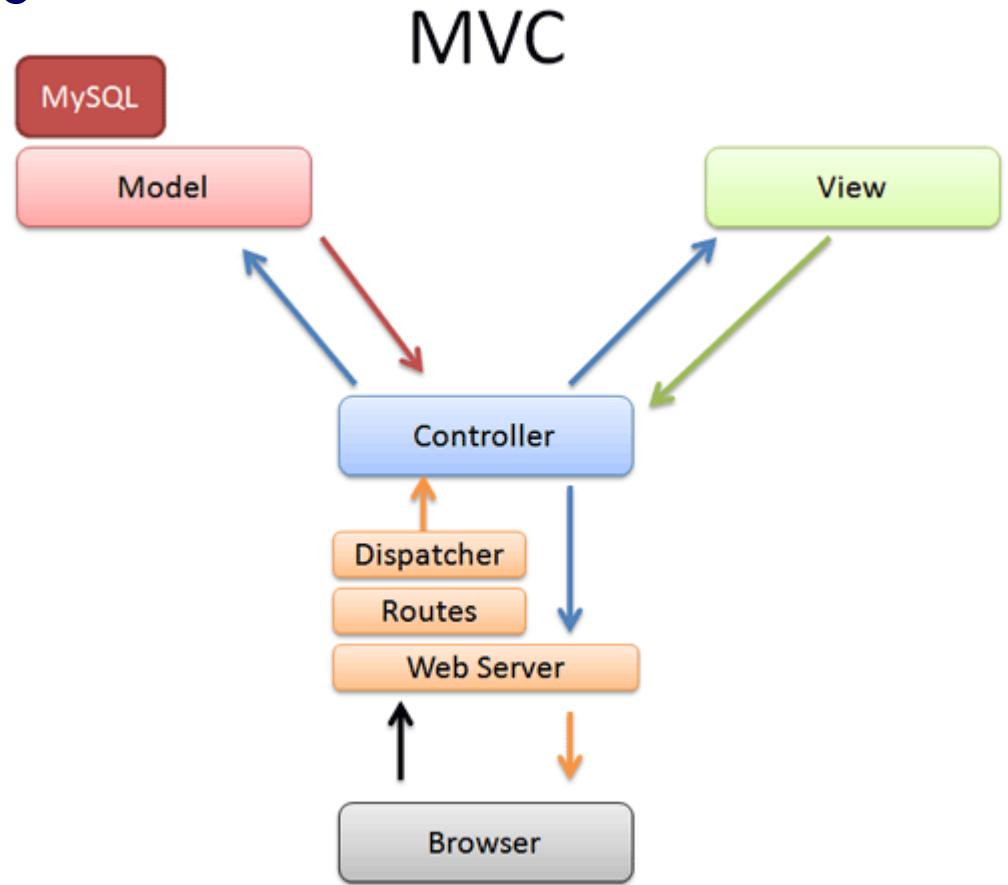
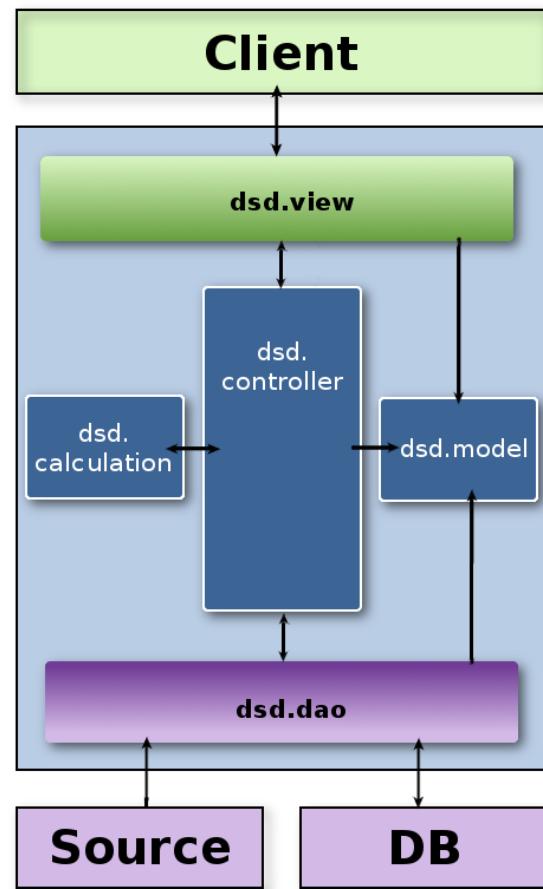
Project Status

- Actual Project Plan (III)
 - Beta Prototype



Project Status

- Actual Architecture



Project Status

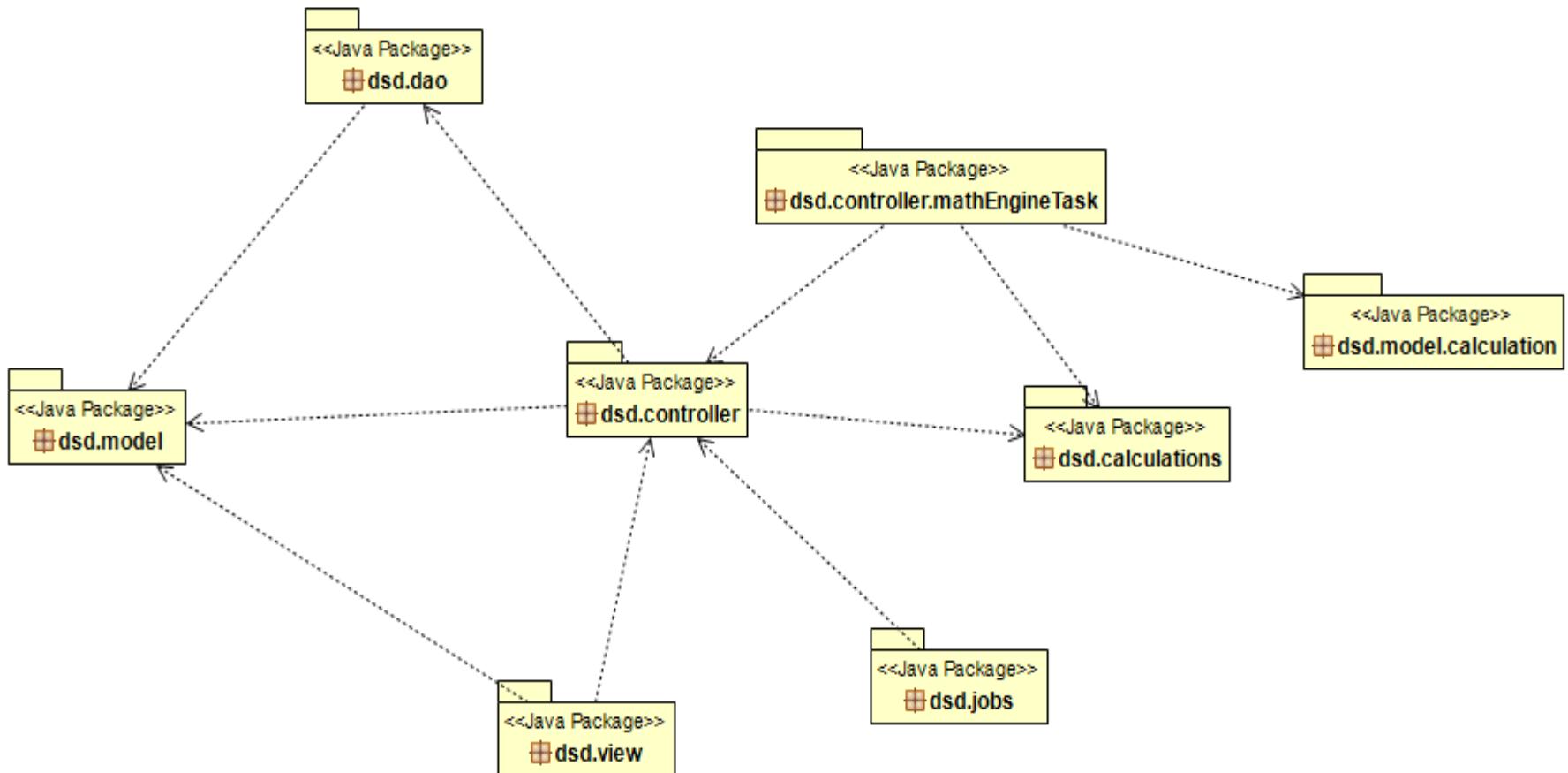


- Actual Architecture
 - Modules distribution (persons in charge)
 - dsd.dao: Marco Brčić and Jörn Tillmanns
 - dsd.controller: each member creates what he needs
 - The Integration Manager controls
 - dsd.model: each member creates what he needs
 - The Integration Manager controls
 - dsd.calculation: Lorenzo Pagliari and Andrea Bottoli
 - dsd.view: Dzana Kujan, Nikola Radisavljevic

Project Status



- Package Dependencies



Meetings

- Both chat & video
- Group Meetings
 - Face to face meetings
 - Formally scheduled every Monday and Thursday
 - Chat used everyday by each member of the group
- Project Leader & Team Leader Meetings
 - About every day (during the week)
 - Formally scheduled every Tuesday



Meetings



- Customers Meetings
 - One every week
 - Project status
 - Customers desires
 - Requirements
 - First one with both customers
 - Ing. Francesco Ballio
 - Ing. Gianluca Crotti
 - The others with ing. Crotti

Meetings

- Supervisors Meetings
 - One every week
 - Inform about
 - Project status
 - Group status & managing
 - Report about customer meetings
 - Gather advices, suggestions and proposals
 - Report problems



Experiences



- Effort

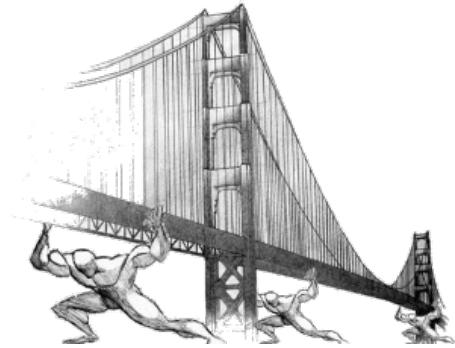
Member	W42	W43	W44	W45	W46	W47	W48	Total
Andrea Bottoli	11	40	50	45	47	68	40	301
Lorenzo Pagliari	10	37	53	51	46	57	37	291
Dzana Kujan	9	36	43	36	27	36	27	214
Marko Brcic	11	40	54	60	28	36	26	255
Jorn Tillmanns	9	37	51	43	20	13	39	212
Nikola Radisavljevic	9	37	45	36	26	35	26	214
Miraldi Fifo	9	38	45	35	16	28	14	185
Ghazaleh Shojaee	-	-	53	13	32	26	-	124
Total	68	265	394	319	242	299	209	1796

Experiences



- Changes in documentation
 - Requirement document
 - 3 versions, working on the 4th (the final one)
 - Design document
 - 3 versions, working on the 4th
 - Input and Conversions
 - 5 versions, now it is complete

Experiences



- Problems
 - Communication
 - Management
 - Ineficient meetings
 - Technologies not familiar to all
 - Setting up environment
 - Being late for meetings
- Solutions
 - Additional Meetings
 - Tasks on github
 - Meeting agenda introduced
 - Additional hours spent on learning
 - Helping each other :)
 - Chocolate penalties :)

Experiences



- Positive experiences
 - Team work
 - Fun meetings :)
 - Everyone is doing a hard work and trying to do the best they can
 - Improved skills and distributed development experience
 - Good collaboration



The Web Site

- Some Screenshots

161.53.67.134/BridgeMonitoring/CurrentStateView

Real-time bridge monitoring

User Name:
Password:

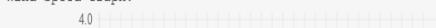
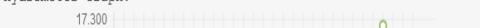
[Home](#) [Current State](#) [Parameters](#) [History Diagrams](#)

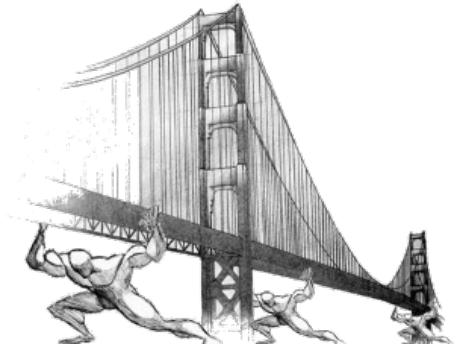
Actual Values

Anemometer: 0.315 m/s
Sonar: 2.19 m
Hydrometer: 17.28625 m

22/03/2011 14:58:40  22/03/2011 15:54:12 

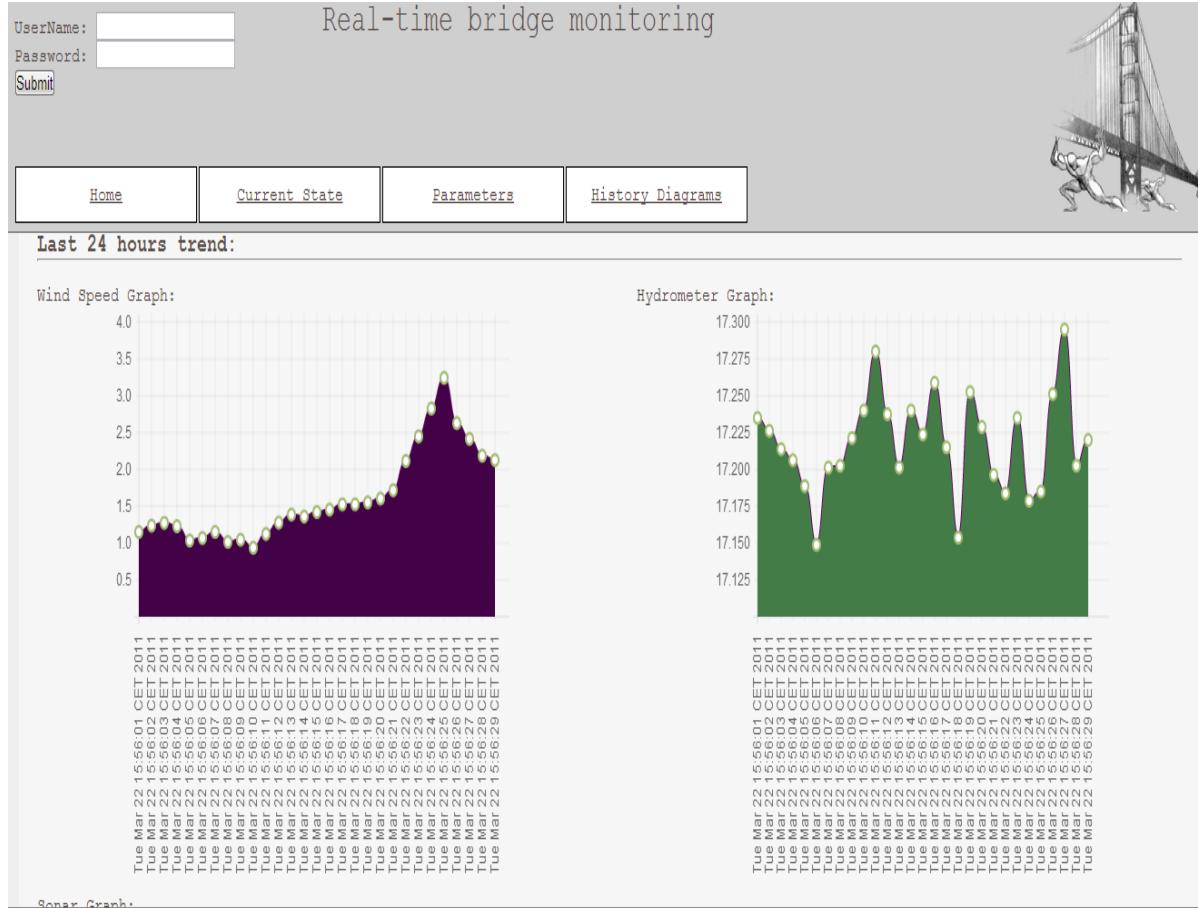
Last 24 hours trend:

Wind Speed Graph:  Hydrometer Graph: 



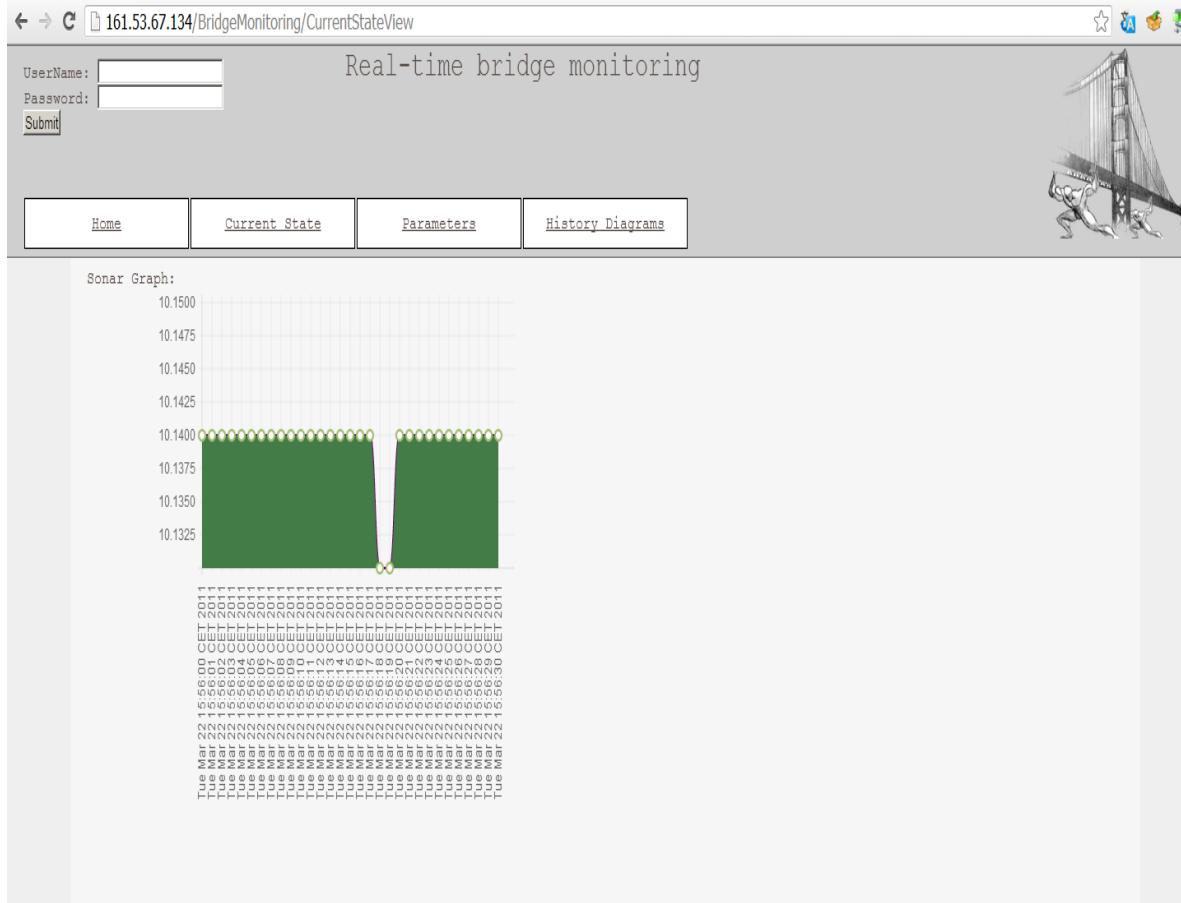
The Web Site

- Some Screenshots



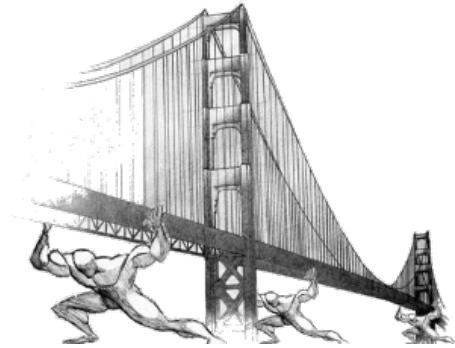
The Web Site

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Question Time





Thank you for your attention

