

You can find a German version for this talk as a paper under: http://shop.heise.de/katalog/ix-dossier-agiles-it-projektmanagement

# Current trends in Software Development Management

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WPS - Workplace Solutions GmbH Hans-Henny-Jah



# No Silver Bullet: Essence and Accidents of Software Engineering

by Frederick P. Brooks, Jr.

Of all the monsters that fill the sightmanes of our folklors, none terrify more than were wolves because they transform unexpectedly from the familiar into horrors. For these one seeks builters of silver that can magically lay ment to test.

The familiar software project, t least as seen by the nontechnical manager has comothing of this character; the something of the

But, as we look to the horizon of a decade hence, we see no silver bullet. There is no single development in either technology or in manager of magnitude improvement in productivity, in reliability, in simplicity. In this article, I shall try to show why, by examining both the nature of the software problem and the properties of the bullets proposed.

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# Example: a huge project on a container terminal in Hamburg



# CMA CGM Christophe Colomb

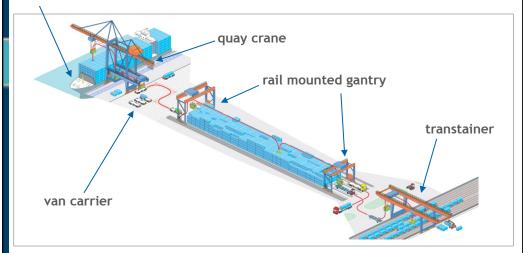
Length: 365,5 m width: 51,2 m tdw : 157.092 TEU : 13.344



# New hardware and new software for large container vessels



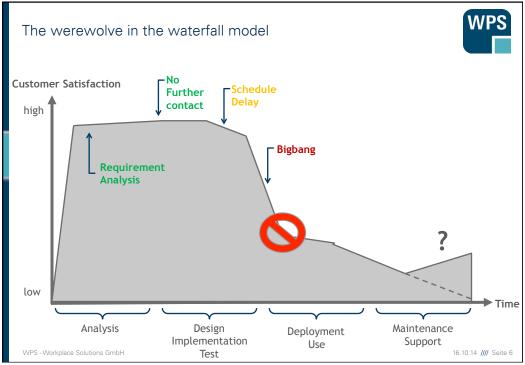
#### container vessel

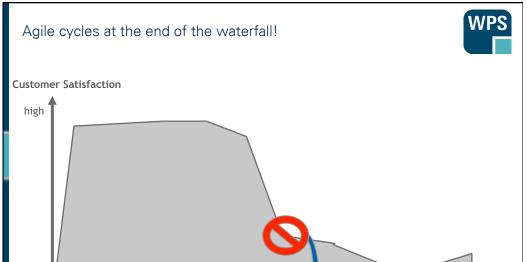


# New hardware and new software for large container vessels











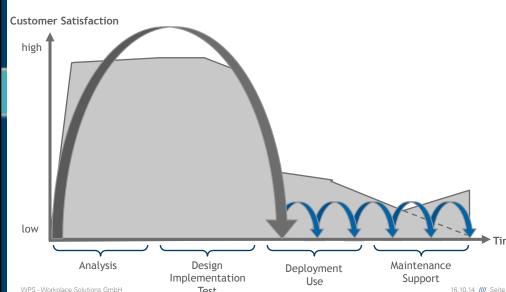
low

# One first big cycles at the beginning of the waterfall model

Test

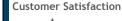


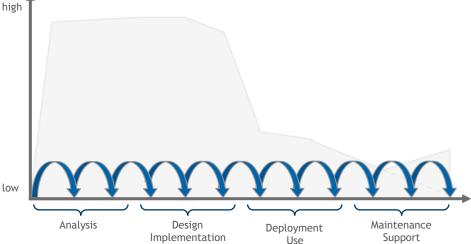
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# Agile Cycles all along the project



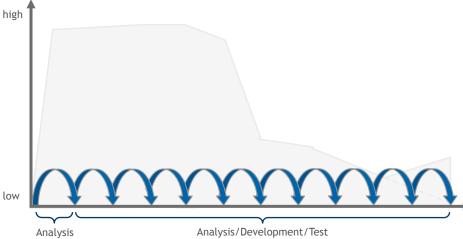




# Real agile cycles



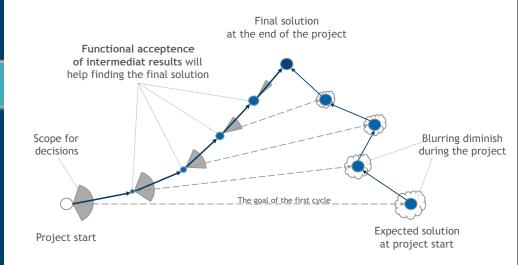




Development WPS - Workpla**Test**utions GmbH Maintenance/Support Deployment/Use

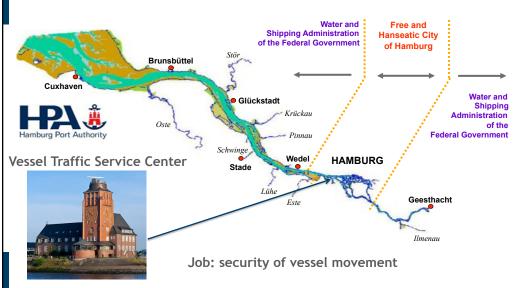
### Software development = expedition





### Responsibilities on the river Elbe at Hamburg





# Example: Real-time system on incidents and the conditions on the waterways in the Port of Hamburg



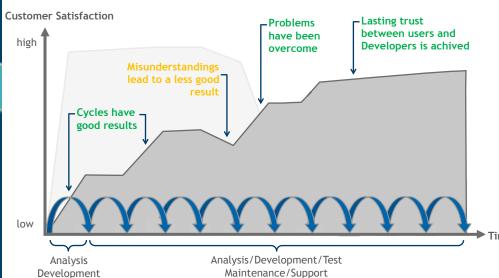






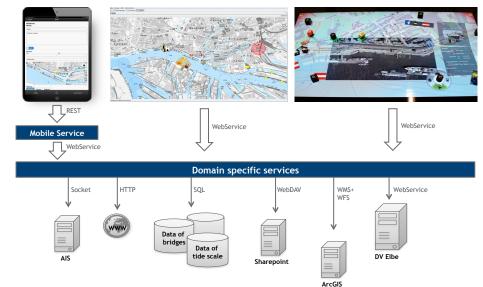
# Agile development leads to customer satisfaction





### Step by step further enhancements are added





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# Mobile work is supported





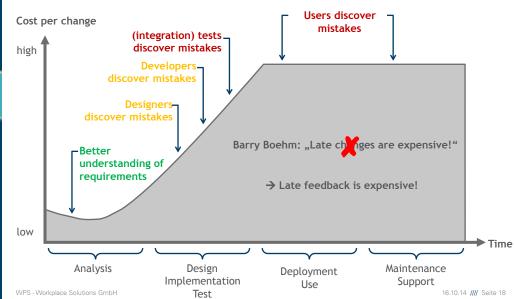
## Cooperative work at the control center is supported





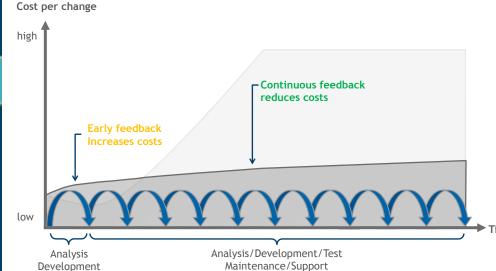
#### Cost curve for the waterfall model





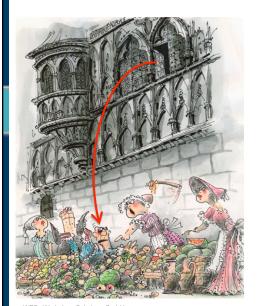
# Cost curve for agile development

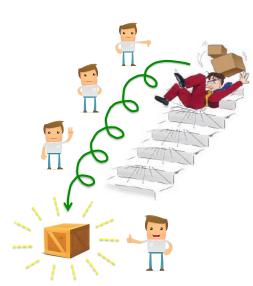




### Waterfall versus agile development - there is pain!



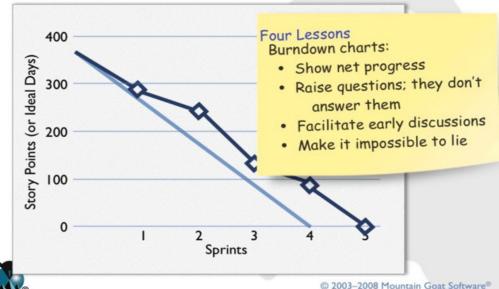




# **WPS** Product backlog iceberg Sprint Priority Release **Future** Releases © 2003-2008 Mountain Goat Software®

# Burndown charts: When will the system be released?





#### XP values





#### Product owner





Have we built a viable thing? (results reward roi)

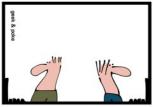
Are we building the thing right? (product management)

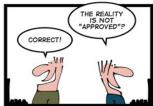
What is the right thing? (interactive exploration)

## Any questions?









WATERFALL JOKES