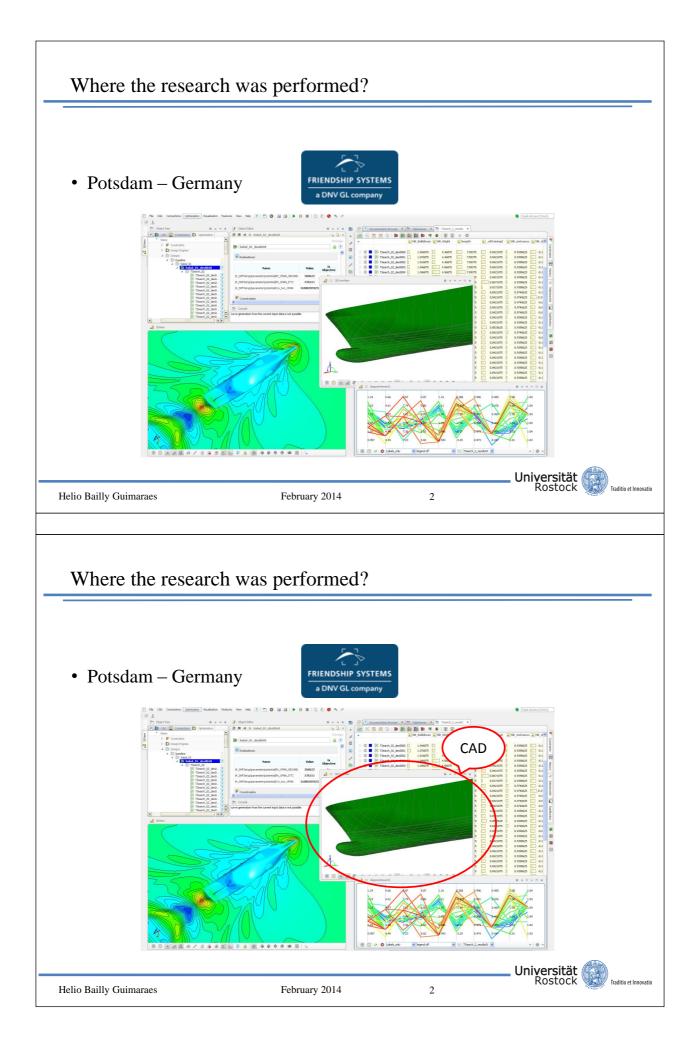
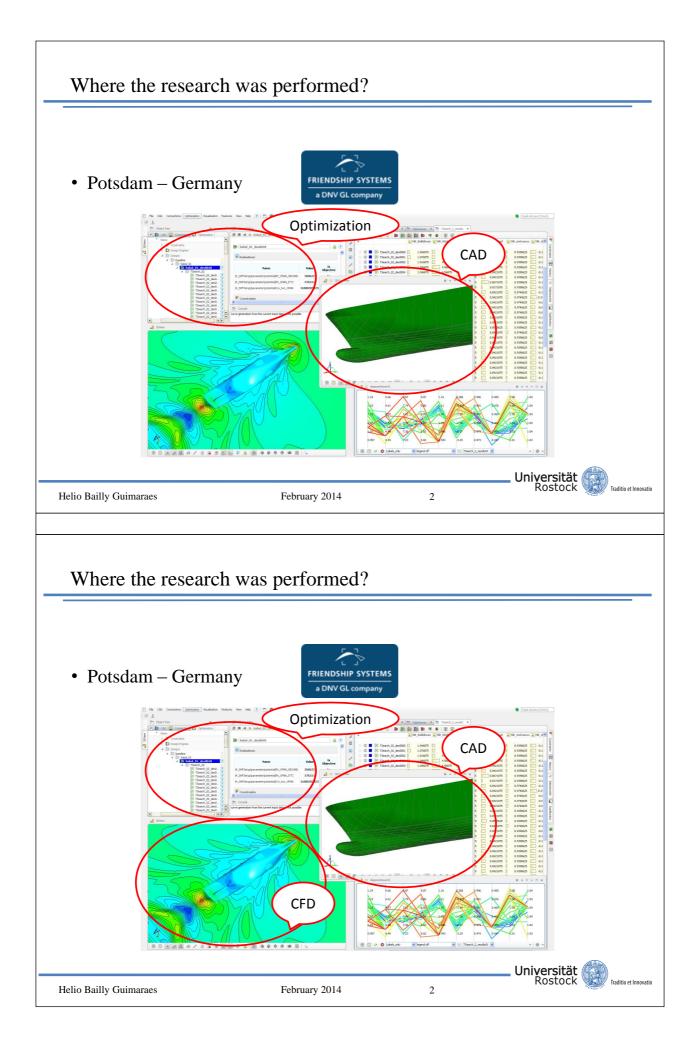
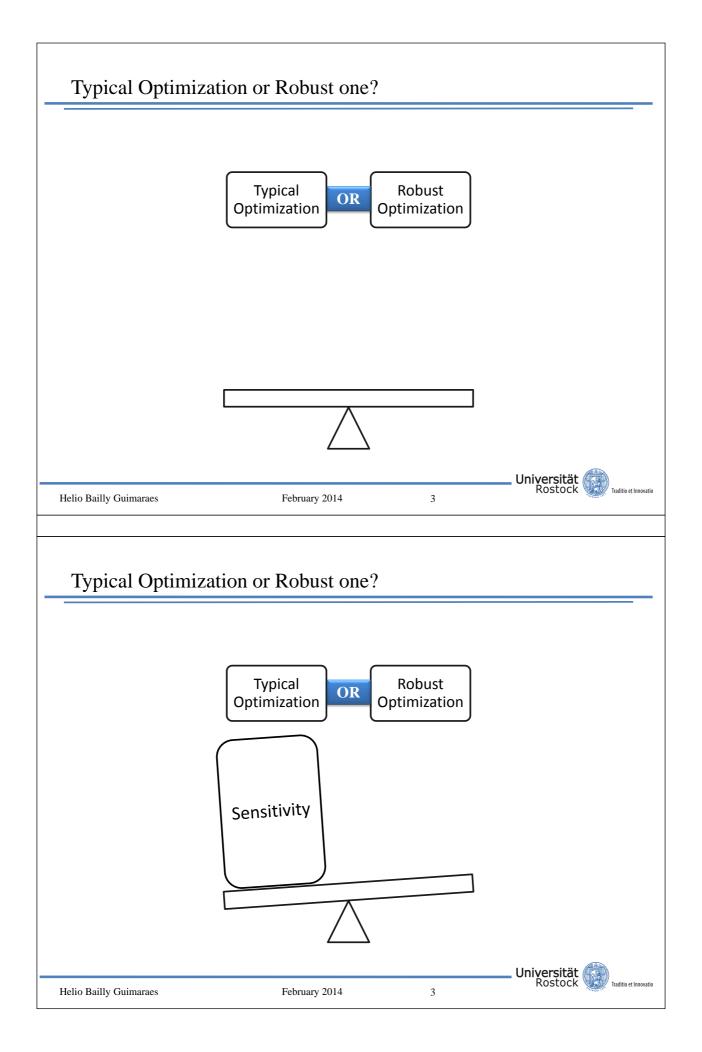
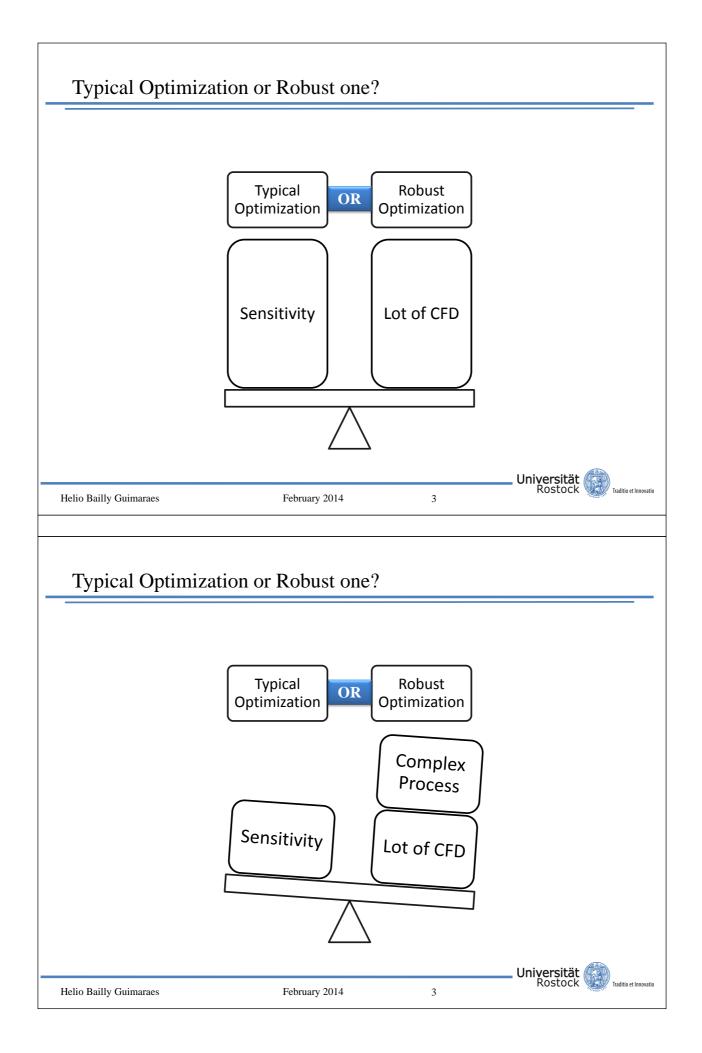


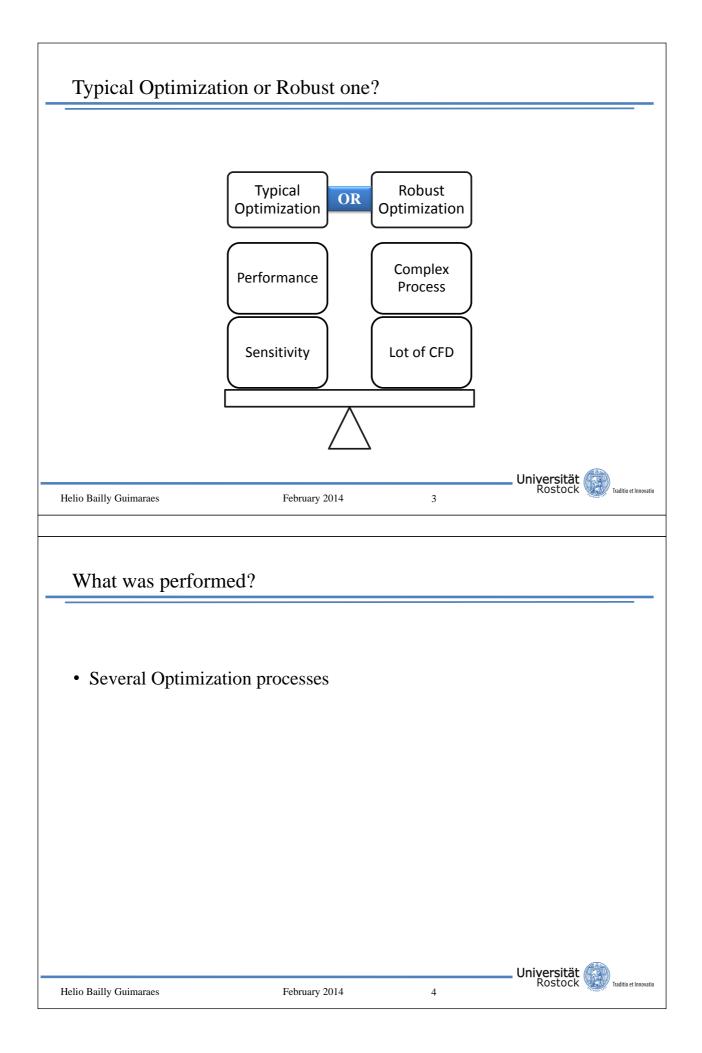
Where the researc	ch was performed?		
• Potsdam – Germa	any		
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Where the researc	ch was performed?		
• Potsdam – Germa	any FRIENDSHIP SYSTEMS	5	





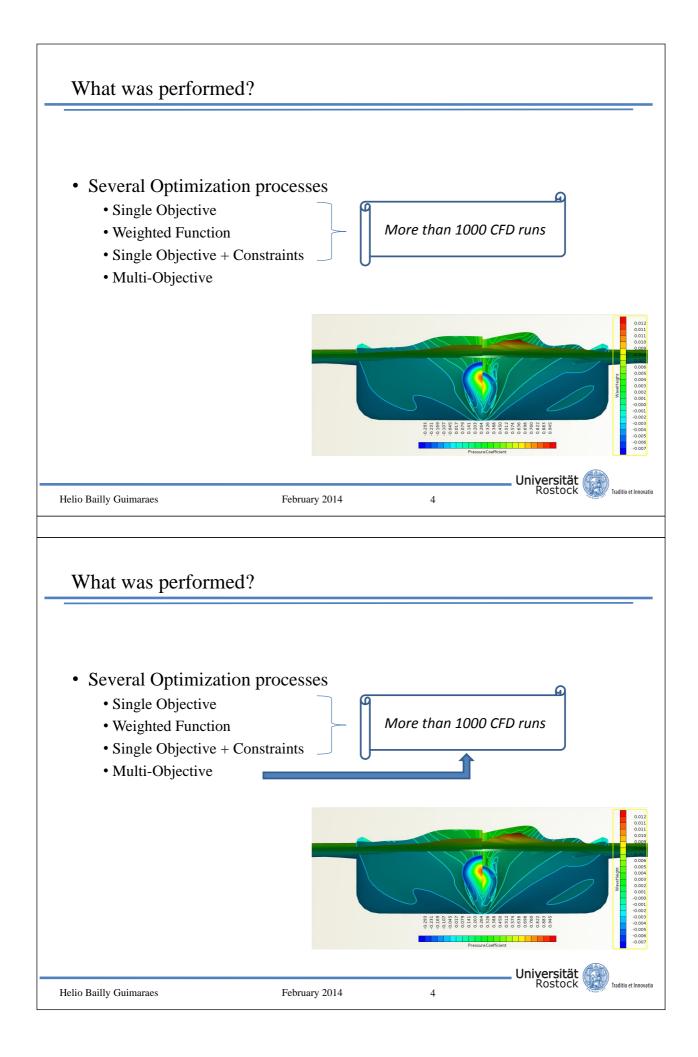


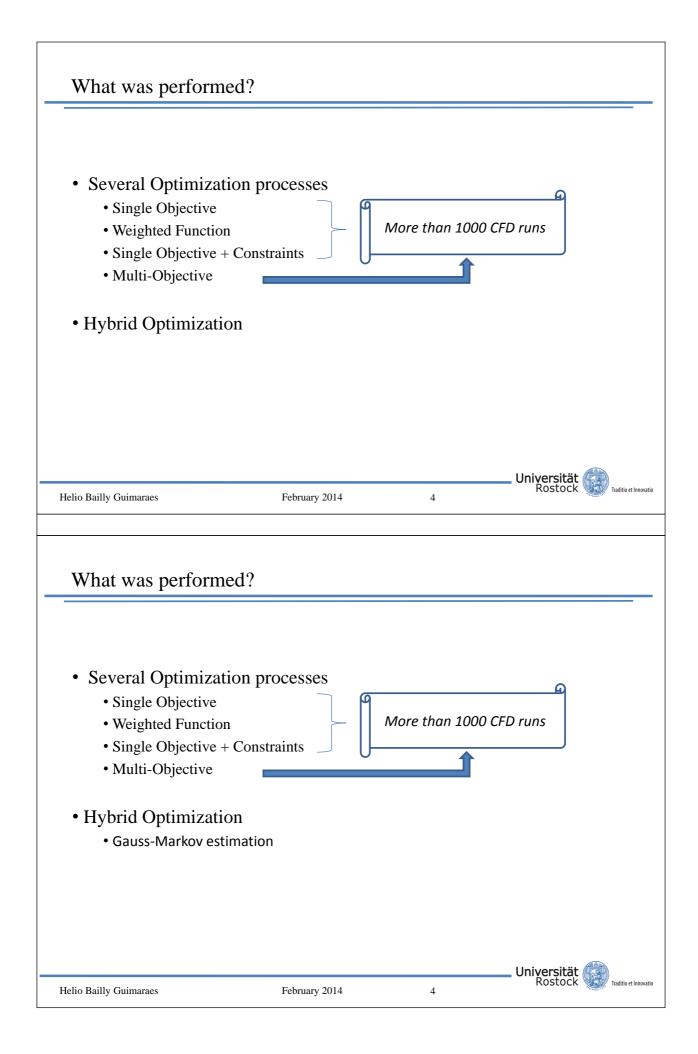


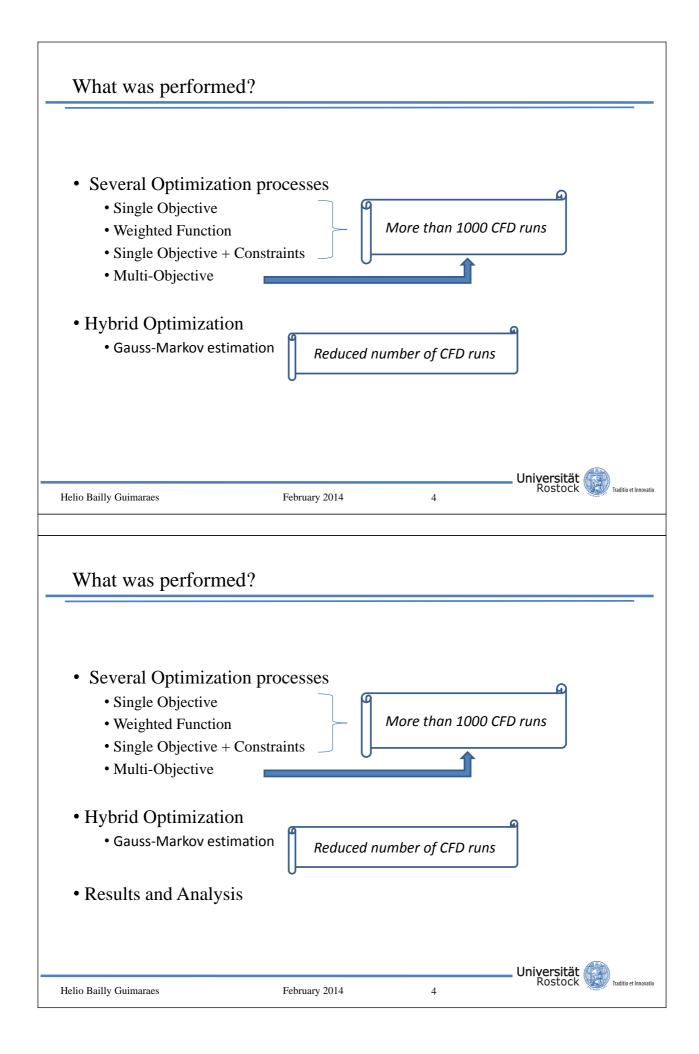


What was perform			
Several Optimizat	tion processes		
• Single Objective			
			Universität () Rostock
Helio Bailly Guimaraes	February 2014	4	
What was perform	led?		
Several Optimizat	ion processes		
• Single Objective			
• Single Objective			Universität Rostock

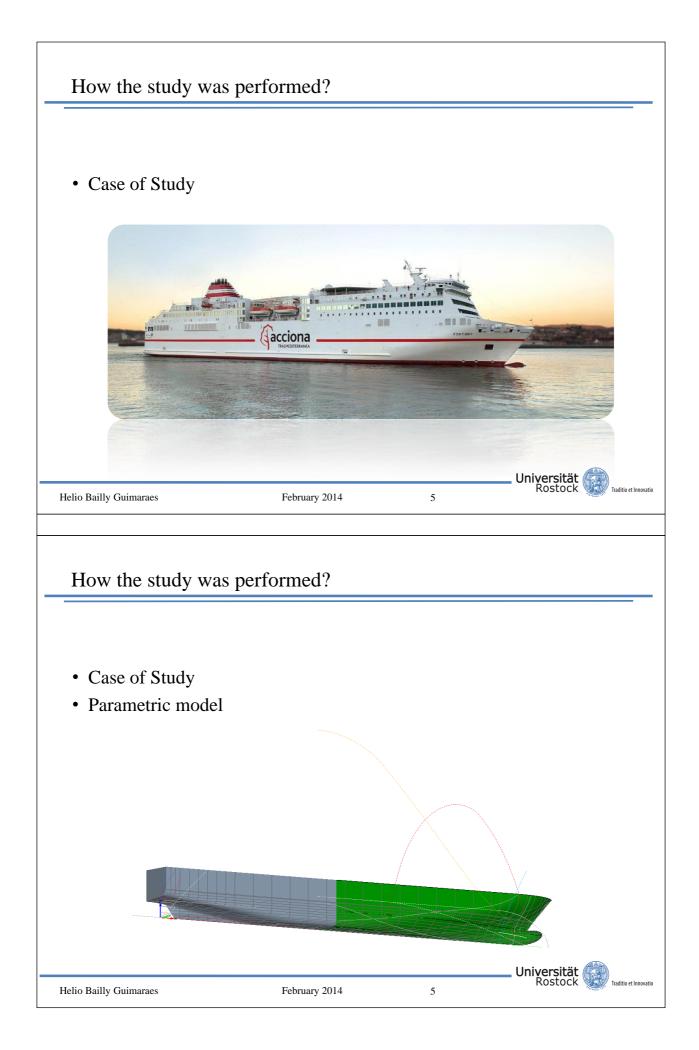
What was perform	ned?		
 Several Optimizat Single Objective Weighted Functio Single Objective - 	tion processes n		
Helio Bailly Guimaraes	February 2014	4	Universität Rostock Traditio et Innovatio
What was perform	ied?		
 Several Optimizat Single Objective Weighted Function Single Objective Multi-Objective 	n		
Helio Bailly Guimaraes	February 2014	4	Universität Rostock

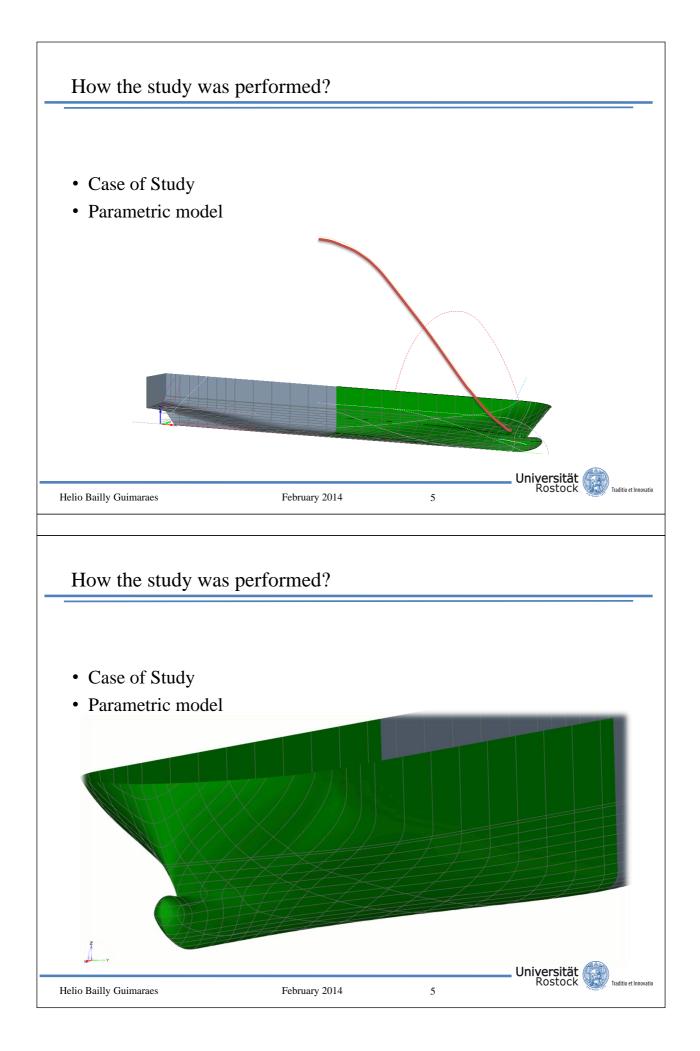


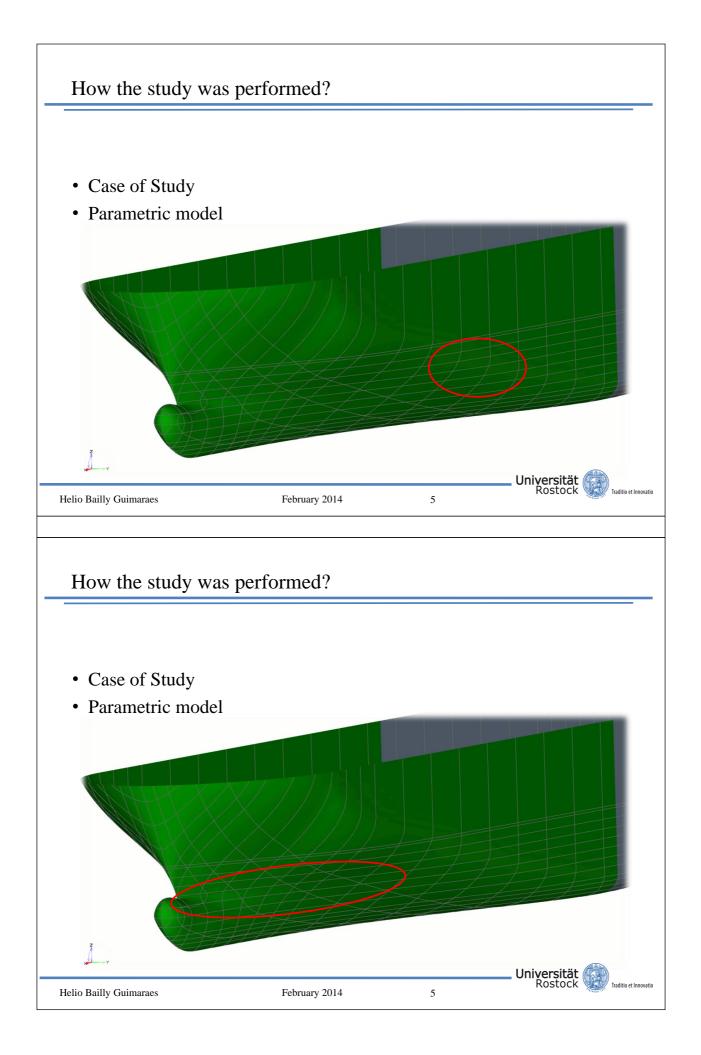


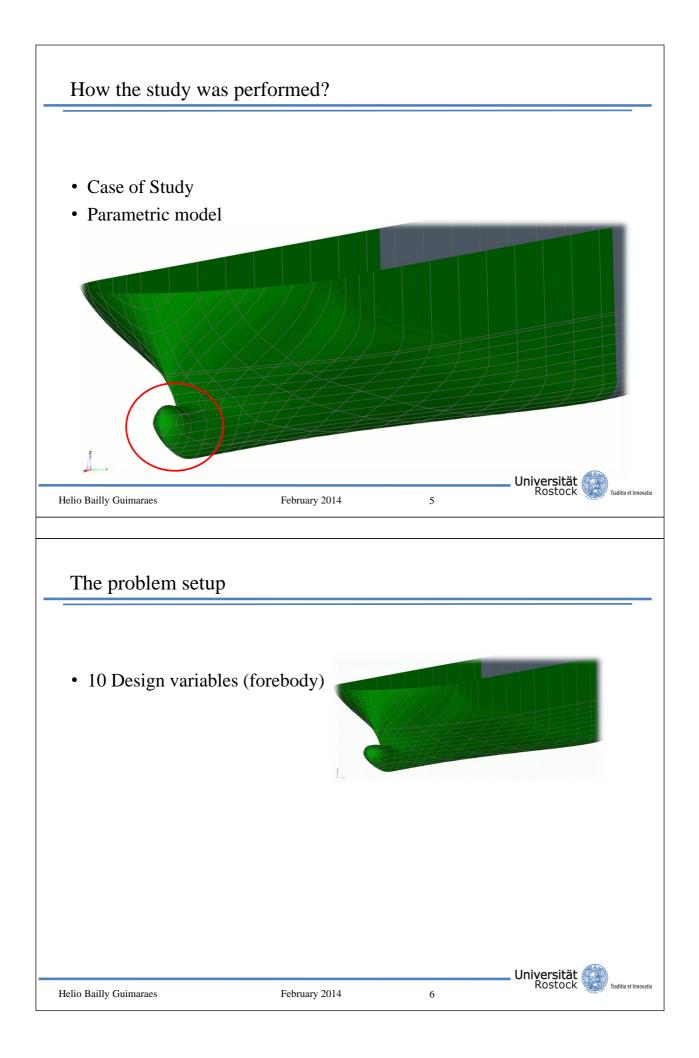


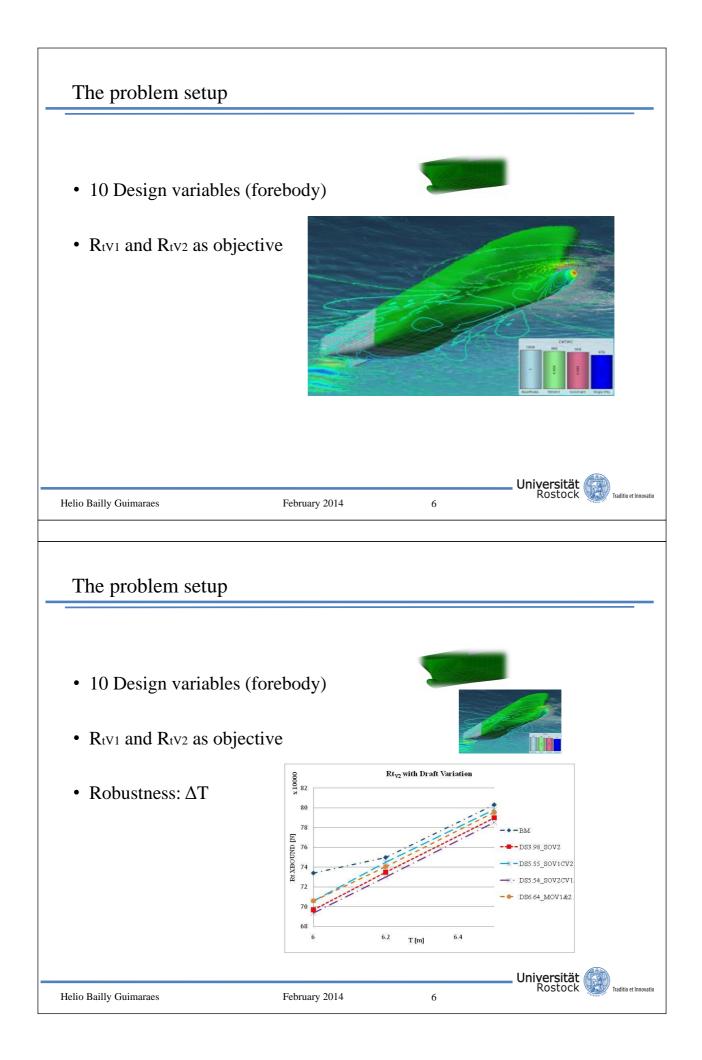
What was performed?	
 Several Optimization Single Objective Weighted Function Single Objective + Cort Multi-Objective 	More than 1000 CFD runs
• Hybrid Optimization	<u> </u>
 Gauss-Markov estimati 	ion Reduced number of CFD runs
• Results and Analysis • Application to Design I	Phase
Helio Bailly Guimaraes	February 2014 4 Universität Rostock
	• • •
How the study was per	rformed?
How the study was pe	rformed?

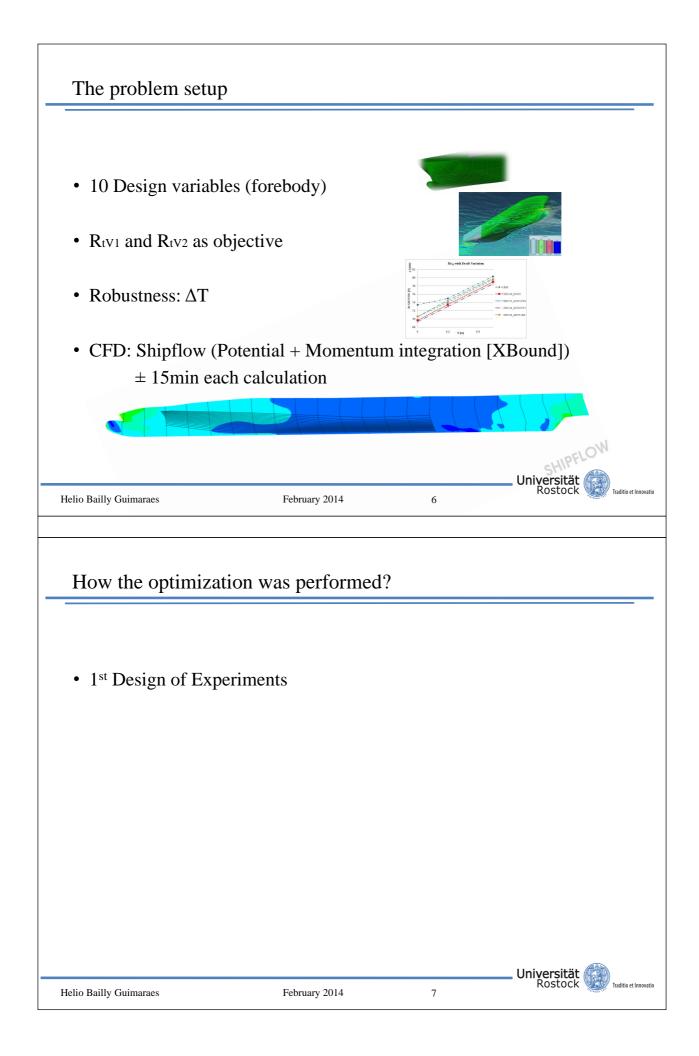


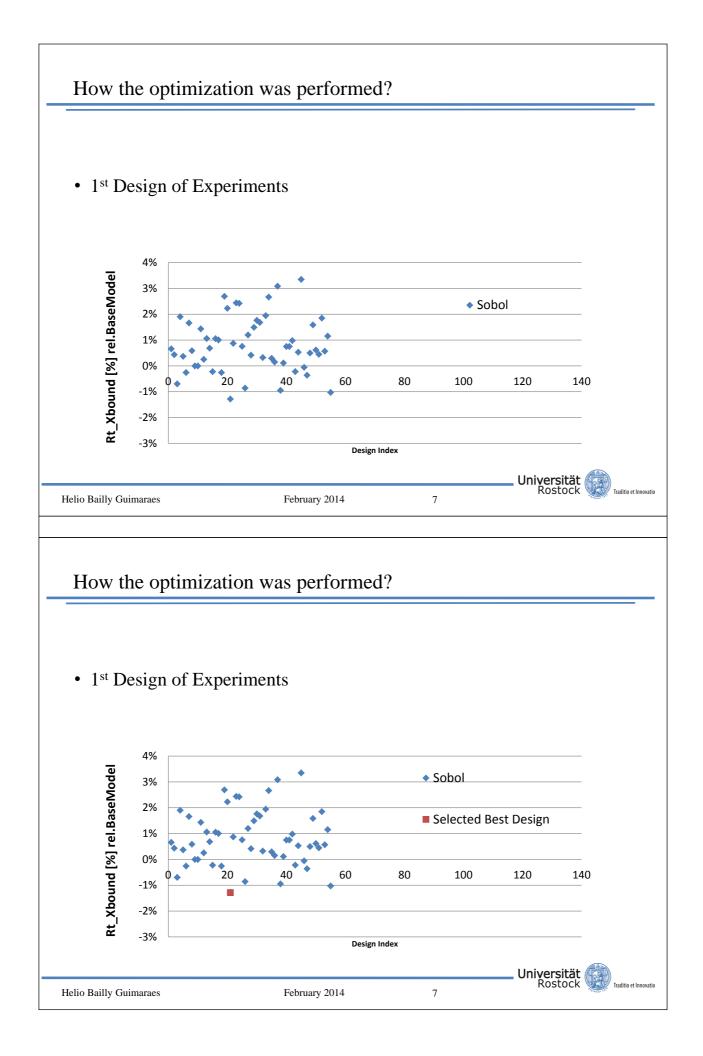


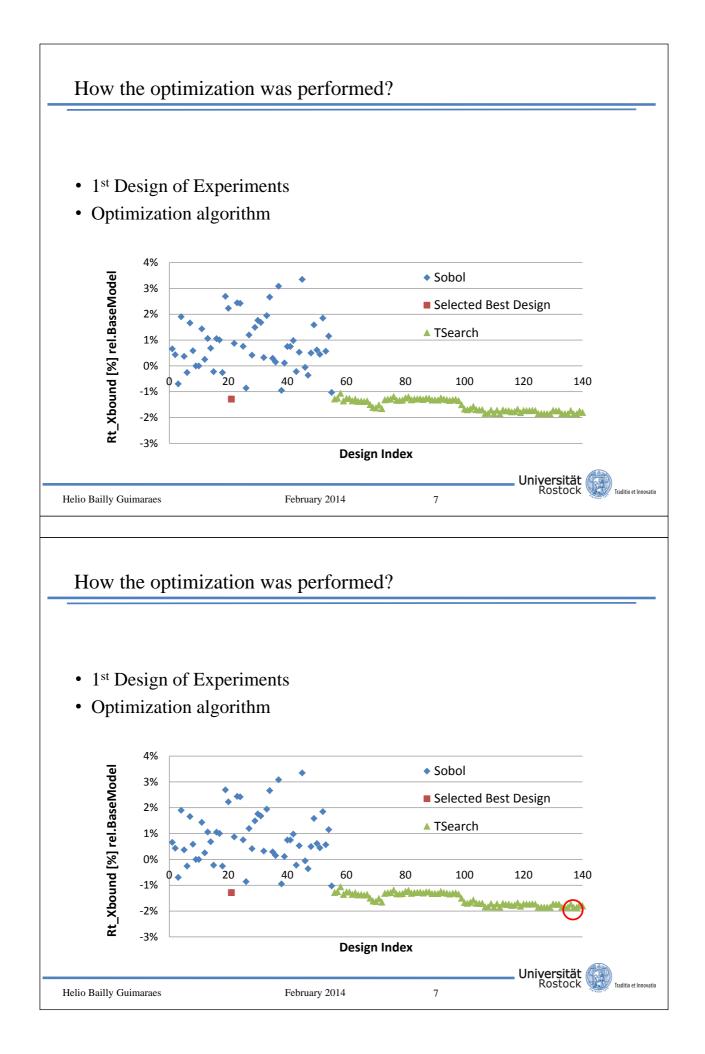


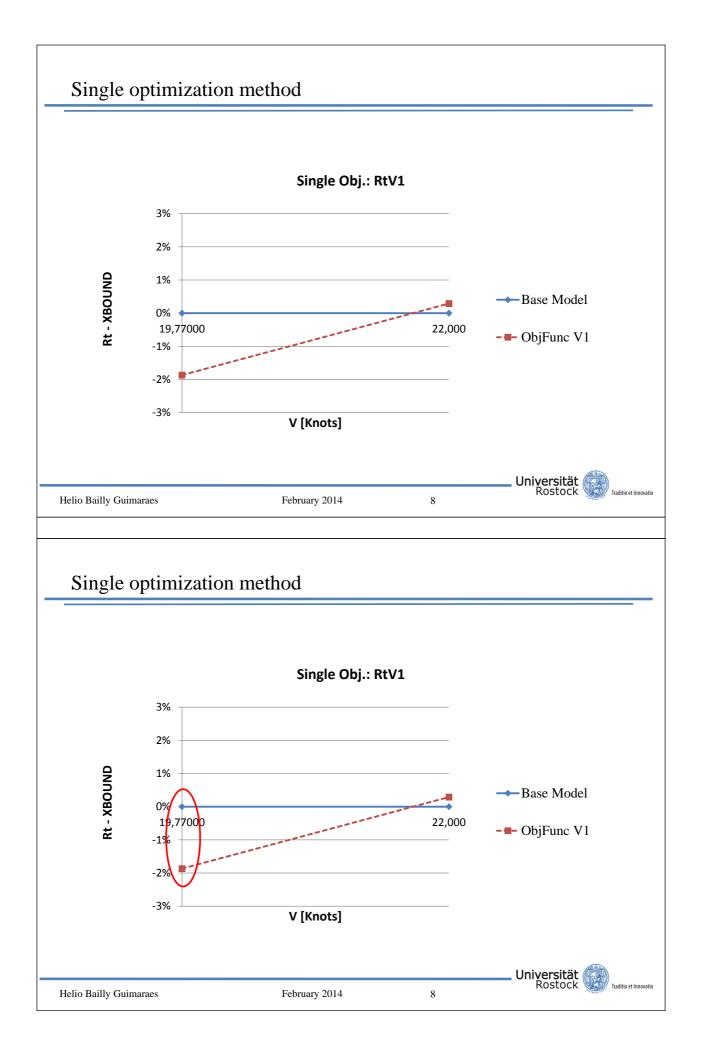


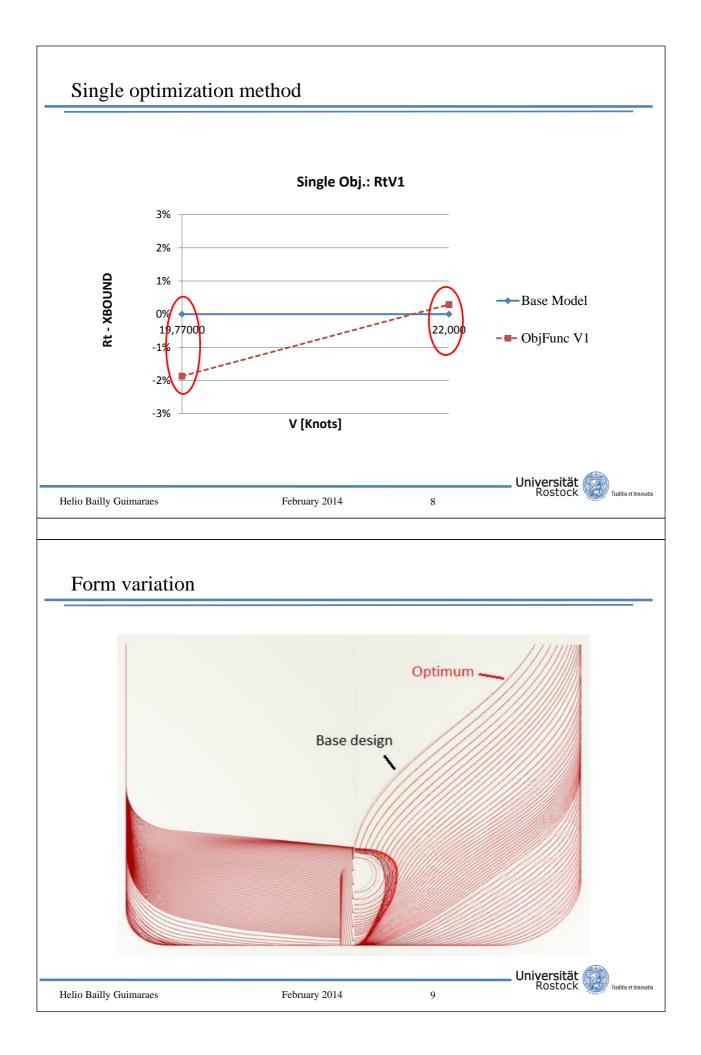


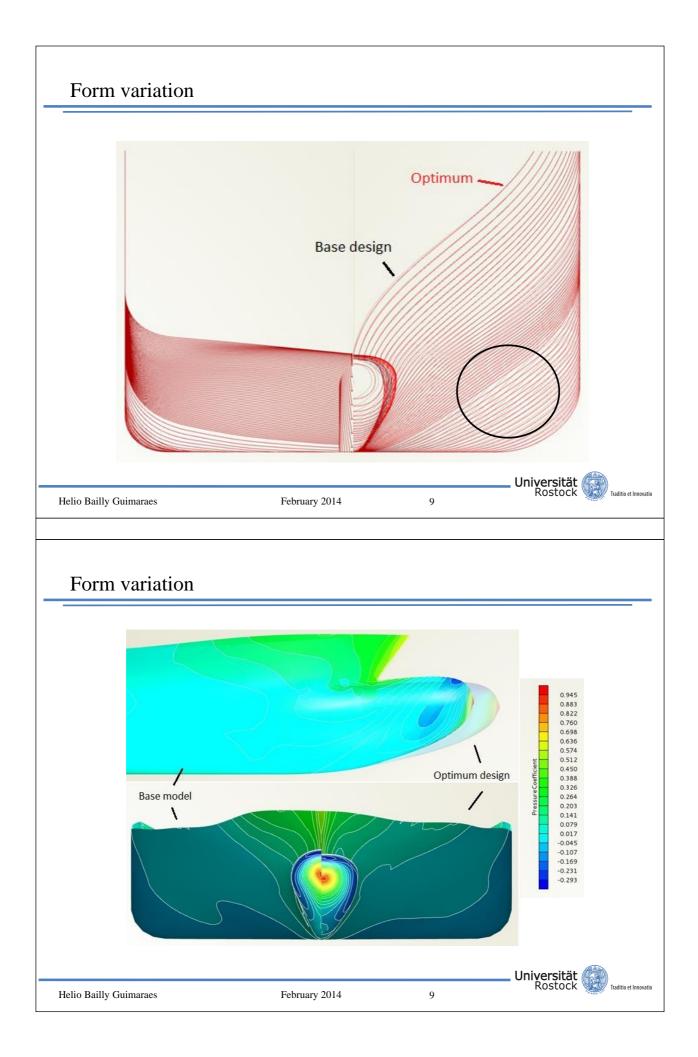


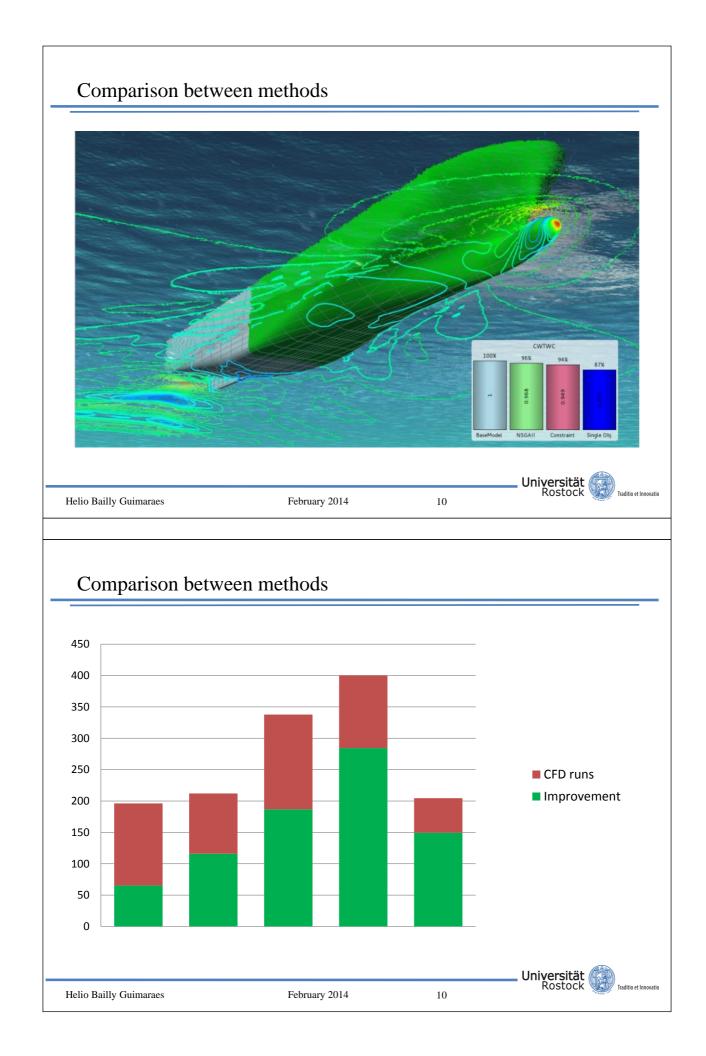


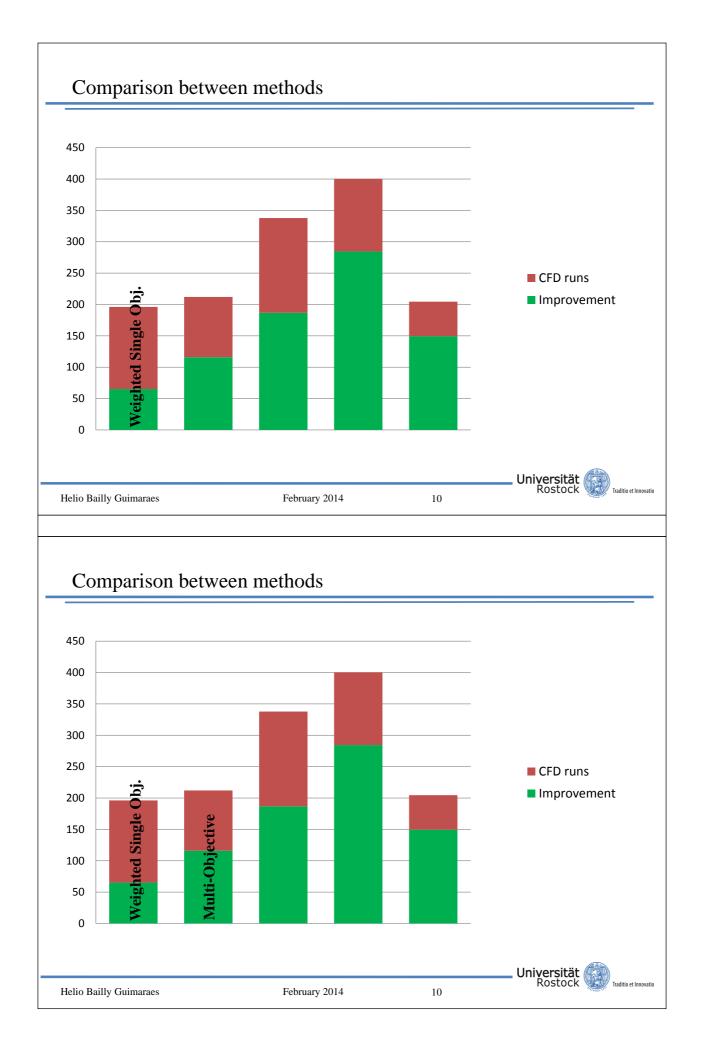


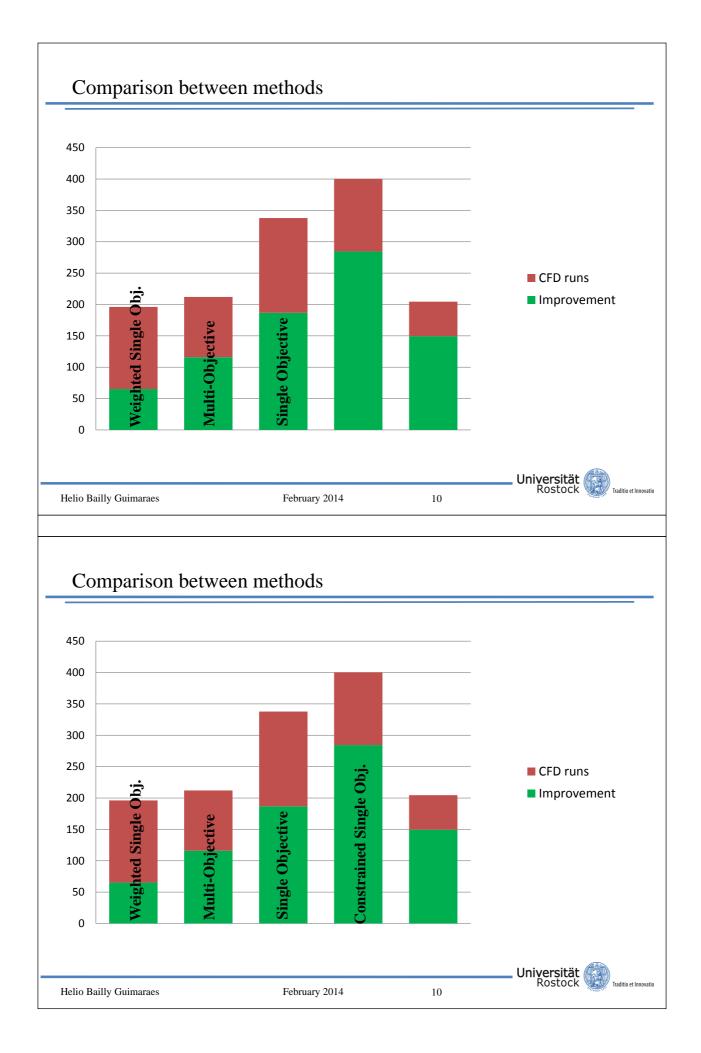


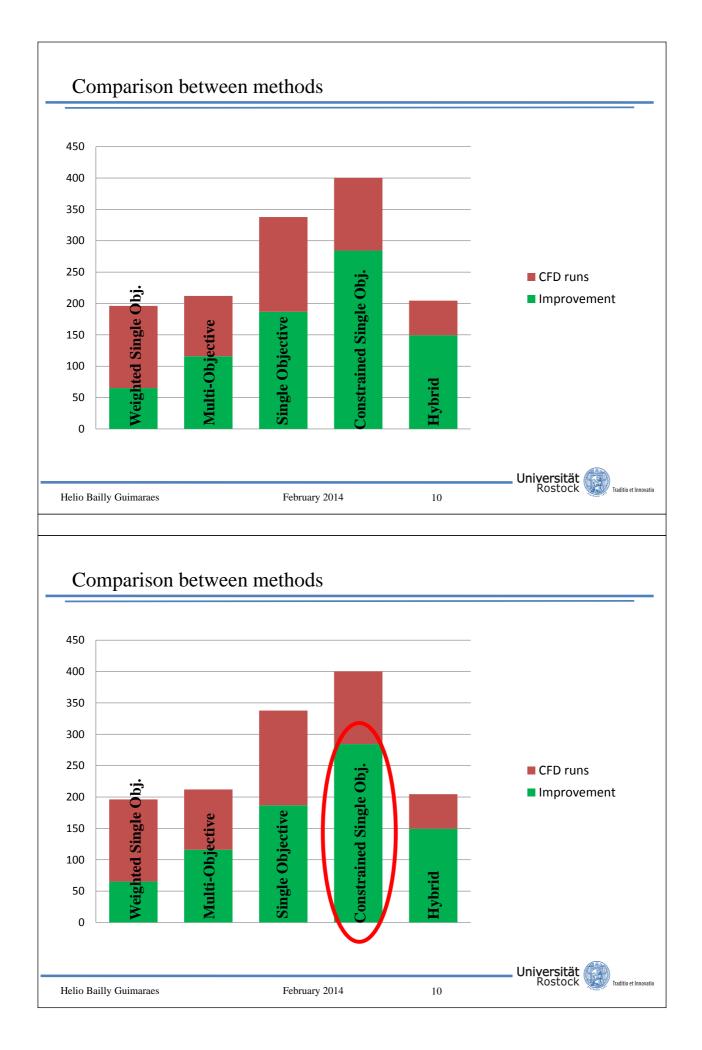


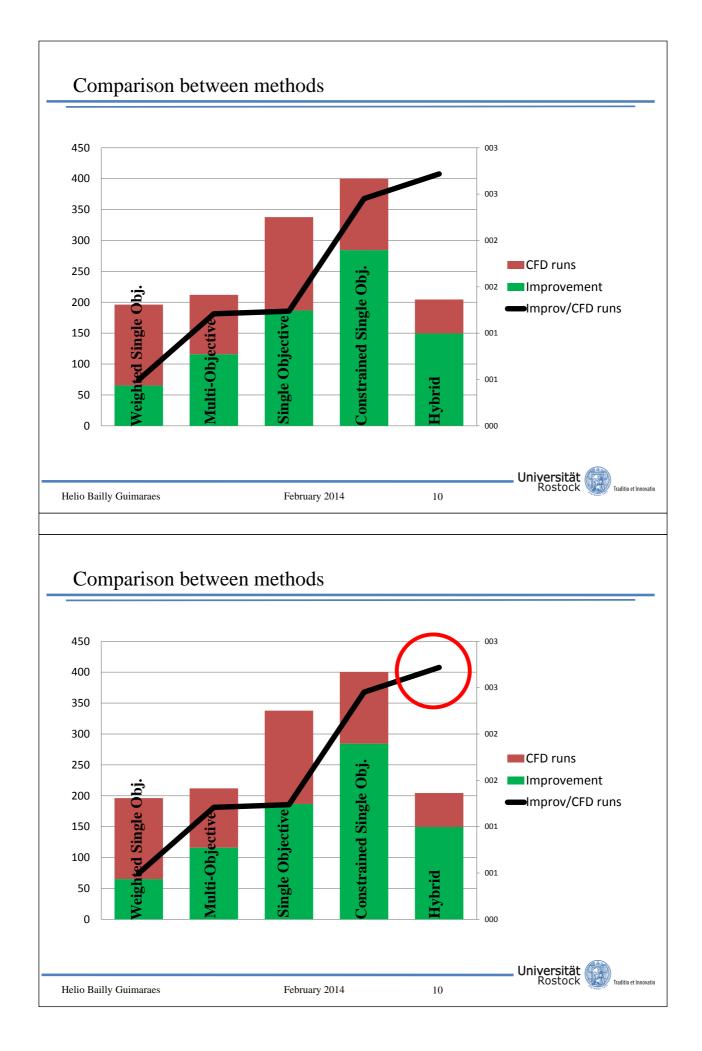












Conclusion			
• Suitable optimiza	tion method for each	case	
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Conclusion			
• Suitable optimiza	tion method for each	case	
• Check of the nece	essity of a Robust Opt	imization (e.	.g. Sensitivity)
			Universität 🚳 Traditio et Inno

