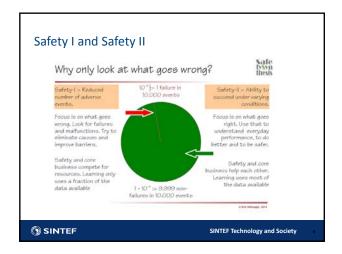
15.10.2014		
Learning from succ	cessful operations	
Stian Antonsen SINTEF Technology and society Dept. of Safety research		
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Objectives		
Introduce some distinctions between success and failure and the relationship to normal variability A walk-through of some of the discussions in the project Introduce the concept of forward-looking sensemaking as a useful concept to understand successful operations		
Illustrate the need for models, co	oncepts and tools to learn from success	
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]
Morning		
Warning!	1	
	W COODS	
STOL	EN GOODS	
100		
Contents and thoughts develop	oed by project team and master students	
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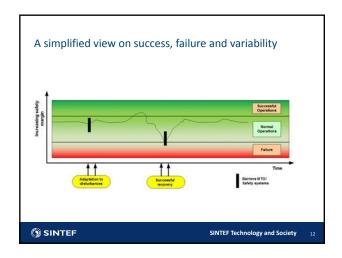




The project	@ **	
	ijor accidents through improved	
learning from successful operat Secondary objectives: 1. Develop methods and guidelines	to analyse successful operations	
Analyse a selection of successful Identify implications for our thee Identify processes to support lea Identify factors that respectively learning from successful operation	retical understanding of safety rning from successful operations are promoting or inhibiting	
Funded by the Research Council's PET		
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Methods • Case – exploration drilling		-
Interviews onshore Interviews and observation on offs Observation of simulator training (1)	hore drilling rigs team training, major accident scenarios)	
		-
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What is an "operation"?		
When does an "operation" start? Actual performance of safety-critical work? Planning of safety-critical work?		
Sharp-end planningBlunt-end processes		
Do we include aspects of context wh Technical design Human factors Organization	en we consider the successfulness of operations?	
	of other operations (e.g. functional resonance)?	
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Different units of analysis possi success	ble for the study of
100 m	
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What characterizes a successful operation? From interviews: Absence of negative consequences? An operation that is well-planned? When everything goes according to plan? When you are able to deal with particularly challenging circumstances? When you have a certain "flow" in your operations? When everybody does what they are supposed to (e.g. follow rules)? The operation stays within budget and time frames or exceeds such expectations?



How well do we know our safety margins?



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Success, failure and variability Appropriate Appropri

Forward-looking sensemaking

- Sensemaking (Weick 1995) is a social process often involving non-human elements, such as transmitters, computer systems, technical documentation)
 - "somebody making sense of something"
- Often a retrospective process: We choose an action and then try to construct a
 justification for that action, rather than the other way round.
- Successful operations are often characterized by actors displaying a form of forward-looking sensemaking
 - Thinking one step ahead
 - Envisioning possible outcomes of decisions and actions
 - High awareness of dilemmas
 - knowing the downsides of decisions
 - Preparing plan Bs and Cs



Source: Ragnar Rosnes

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Challenges to learning from success	sful operations
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Challenges to learning from successful operations 1. Investigations rarely discuss what prevented near-misses from becoming disasters, or accidents from escalating further "The emergency preparedness organisation seems to have functioned properly" 2. How do you make people reflect on success when "nothing" has happened Interviews vs. observation When asked about safety, people tend to think about accidents We have several theories, concepts and perspectives enabling us to describe, analyse and understand failure. We lack the language and theoretical "infrastructure" to conceptualize success

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