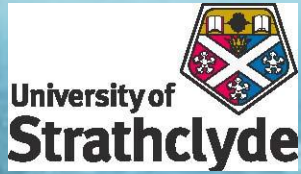


EC Framework Programme 7/5



Maritime Transport

Professor Dracos Vassalos





EC FP and Academia

Do we have a voice?

**FP7 Maritime Transport Brokerage Event
London, 7-8 September 2011, London**



Presentation Outline

- Research Process & the Innovation Cycle
- Research Success Factors
- Academic “Marine” Resource in EC FP
- EC FP Evolution and Lessons Learned
- A Success Story
- Paving the Way Forward
- Do we have a voice?

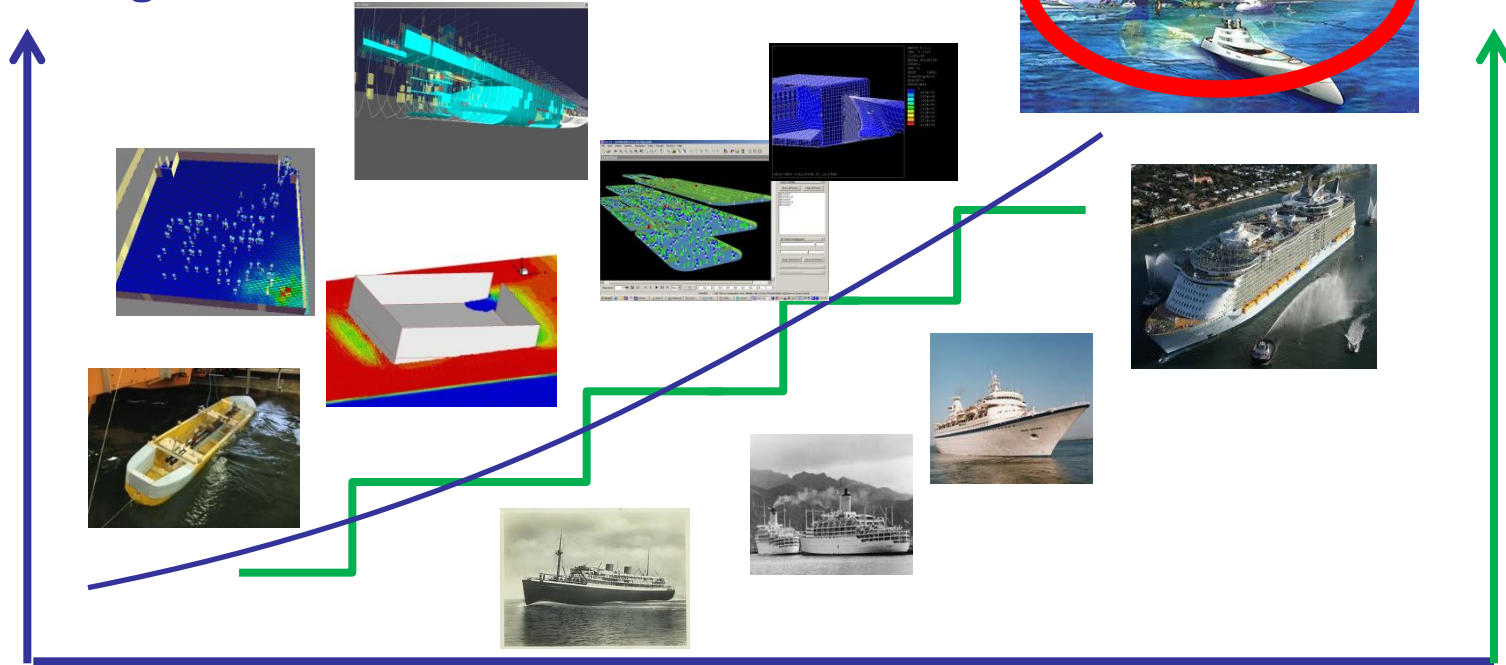


Research Process & the Innovation Cycle

...will never happen overnight!

Knowledge /
Understanding

Level of
innovation



Time



Research Success Factors

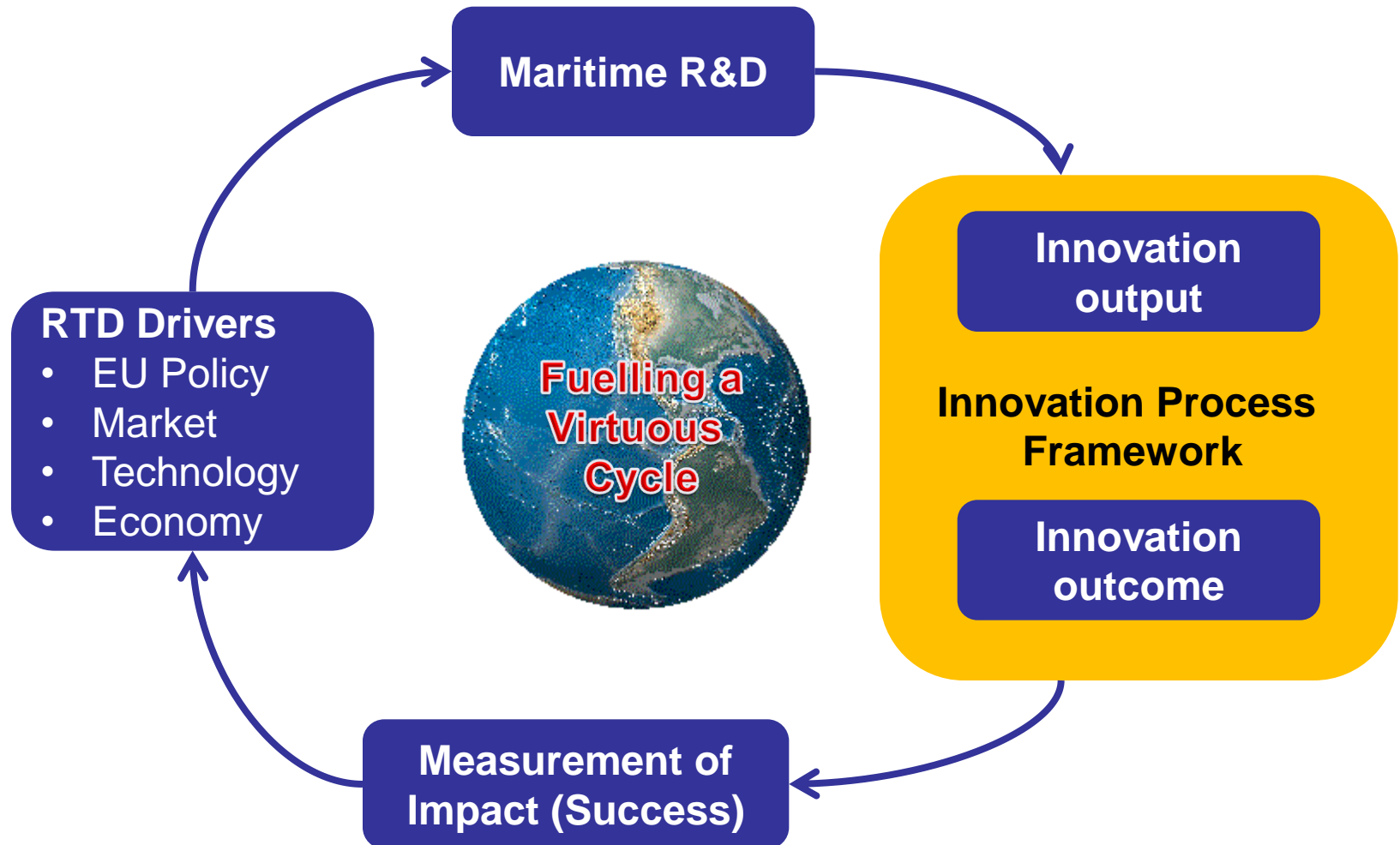
- Aptitude → nurturing environment
- Habitude → continuity
- Motivation → rewarding experience
- Virtuous → relevant, effective /
efficient, measurable,
visible



Fuelling a Virtuous Cycle

REAL – IMPACT (failed 3 times)

Assessment of Impact on Performance at Company Level of European Maritime Research & Technological Development





Academic Marine Resource in EC FP

- Some 50 institutions with UG and /or PG “Marine” courses in EU
 - Some 1,500 researchers at various levels
 - Estimated 10% level of participation in EC FP, normally expected to play a key role in research development, thus shouldering the pressure implicit in research through uncertainty.
- Resource underutilised
- Participating resource alienated



EC FP Evolution & Lessons Learned

- FP3: Limited “marine” participation
- FP4: Beginning of serious “marine” presence (small consortia, separate focus on academic and RTD research → success rate 75%)
- FP5: Start of Thematic Networks and IPs, the breeding ground for “marine” success (academic research dropped but wider participation encouraged, balanced consortia, serious networking and bonding, “feel good” attitude permeating, research impact visible → success rate 33%)



EC FP Evolution & Lessons Learned

- FP6: IPs building on TN success, the Apex of “marine” research excellence (large consortia deriving from continuity and longevity of shared research experience through the TNs) – cutting edge research, filtered through peer review of real experts, monitored by real experts, assessed by real experts → maximum visible / measurable impact, putting EC Marine Reserach at the pedestal → success rate 100%



EC FP Evolution & Lessons Learned

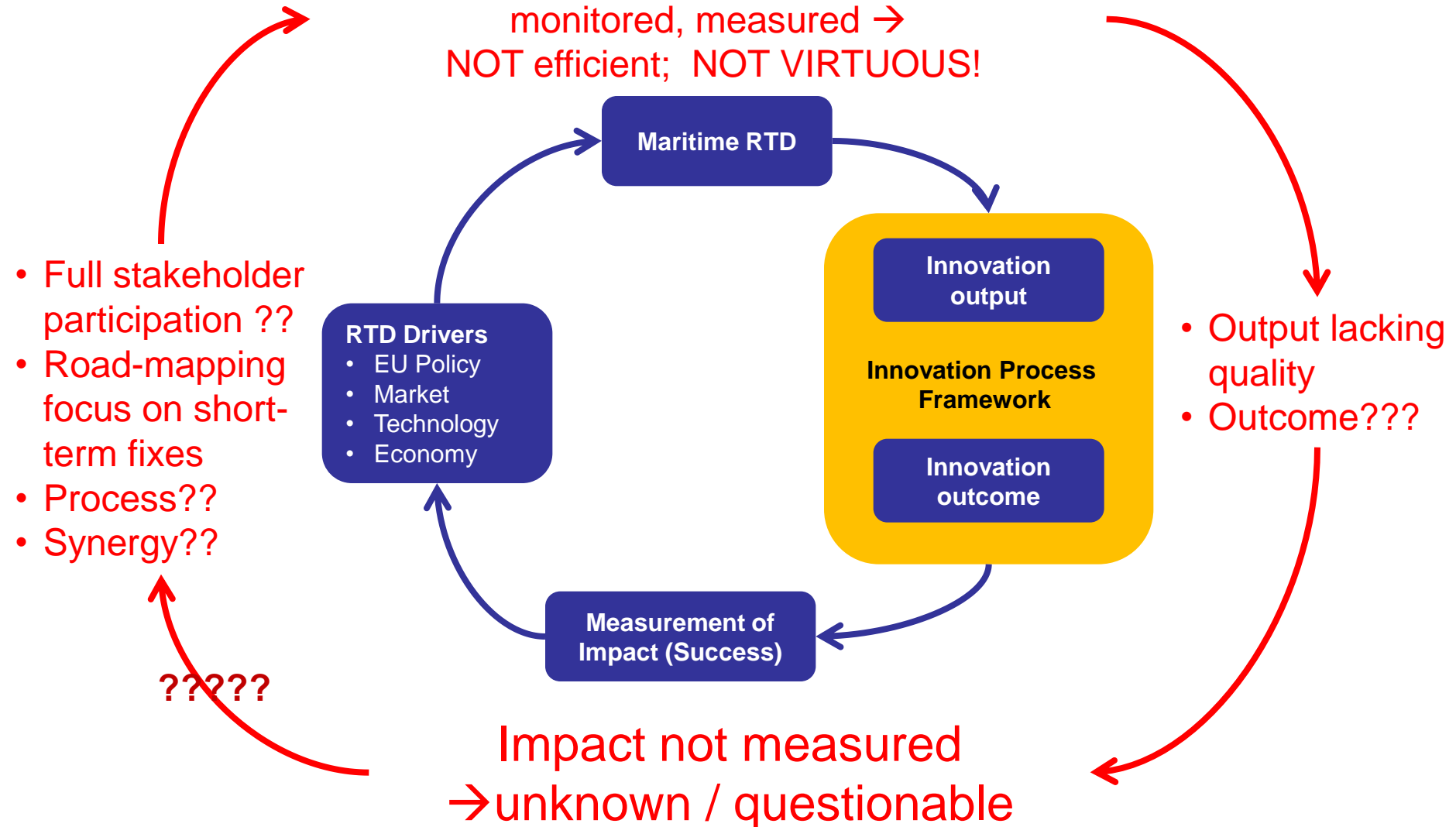
- FP7: Precisely when stronger integration was needed, the carpet under anything integrative was simply pulled! The WB Platform, fraught with inefficiency and lack of transparency, “forced” many serious actors away, fuelling parochialism and short-termism, thus undermining the good work of the TNs. The process of road-mapping, project selection, monitoring and assessment are suffering as a result. The situation calls for careful thinking and positive intervention.



EC FP Evolution & Lessons Learned

FP7

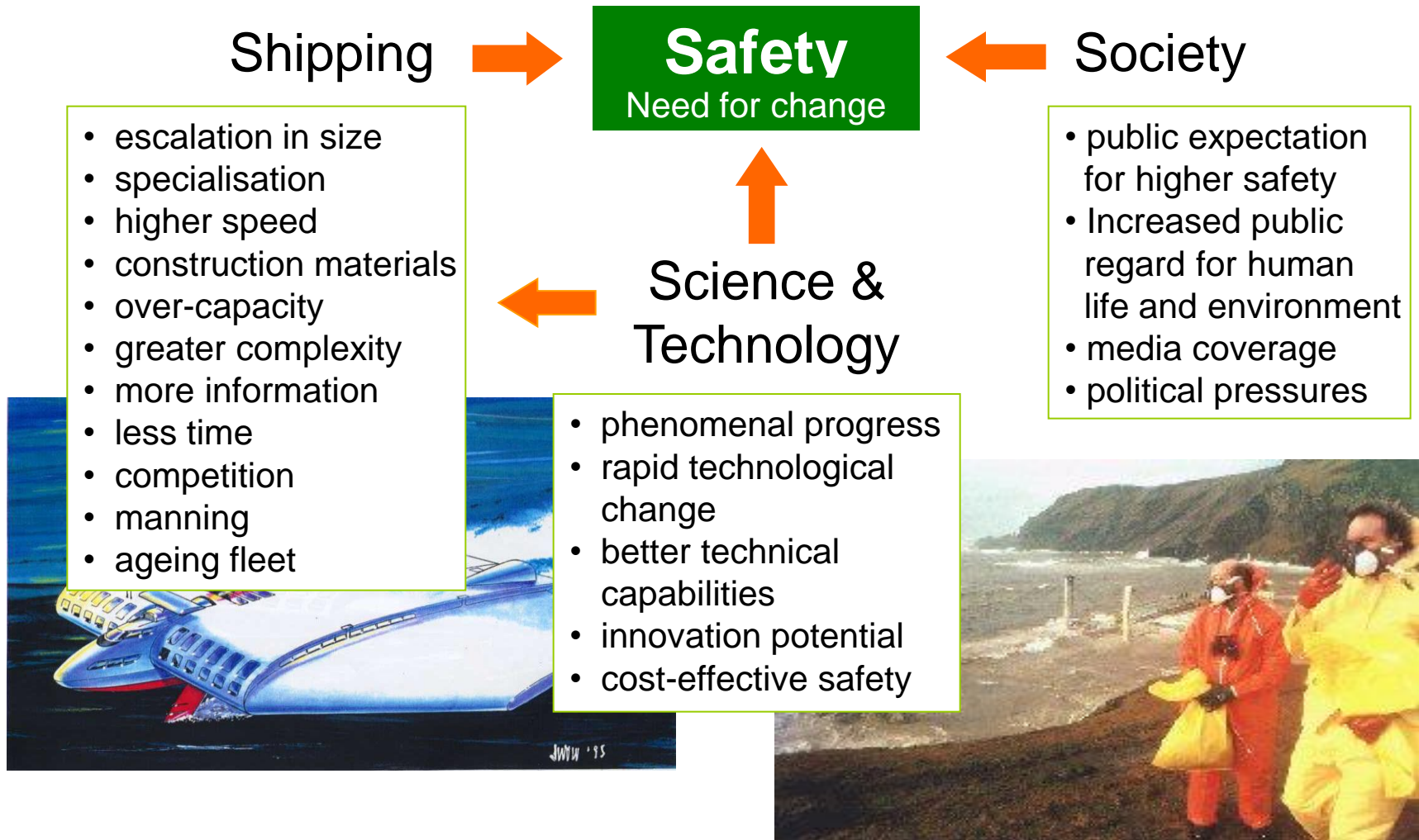
NOT cutting edge, NOT suitably distilled,
monitored, measured →
NOT efficient; NOT VIRTUOUS!





A Success Story

SAFER EURORO TN – Safety Drivers

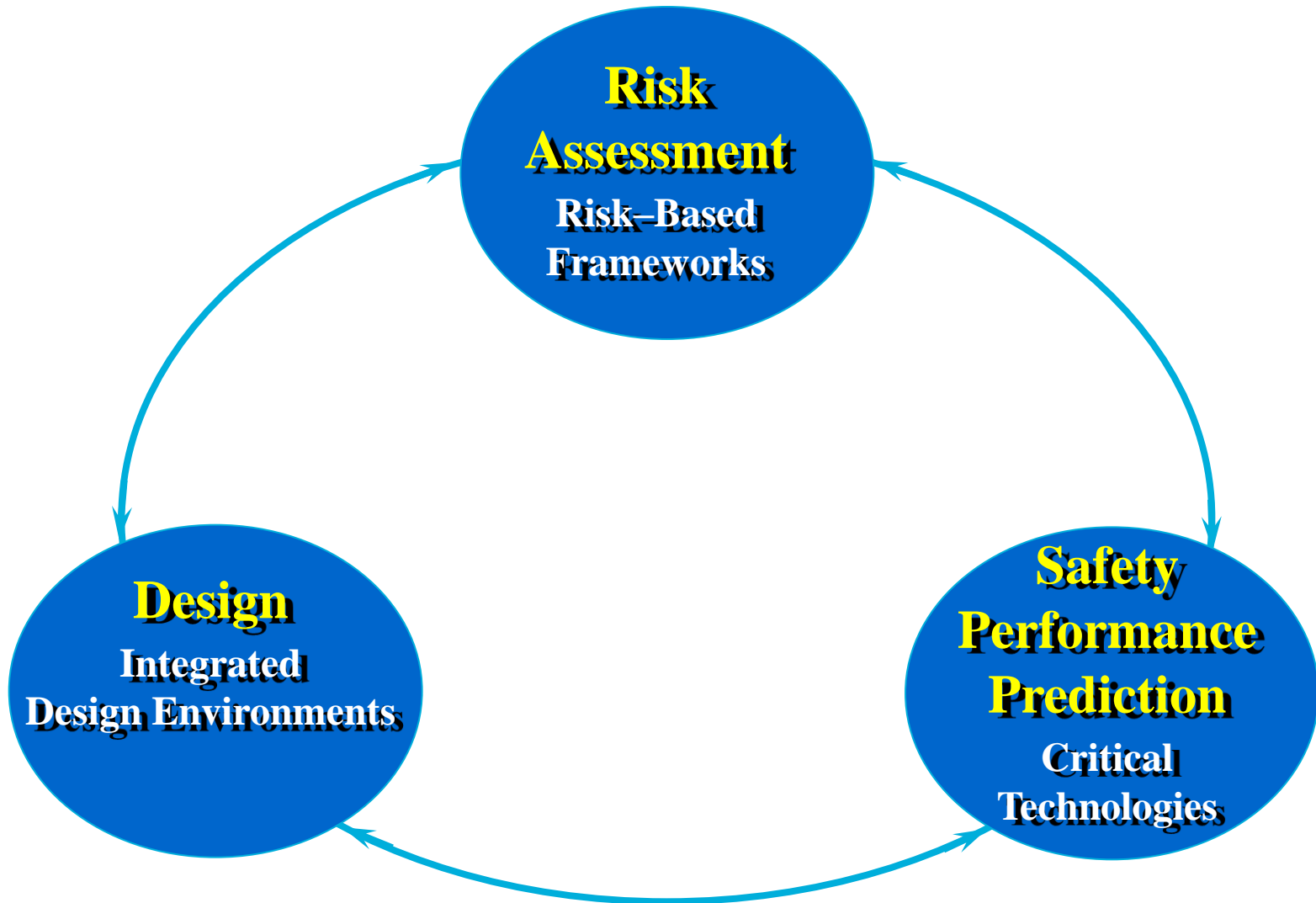


“Design for Safety”



A Success Story

SAFER EURORO TN – DFS Philosophy



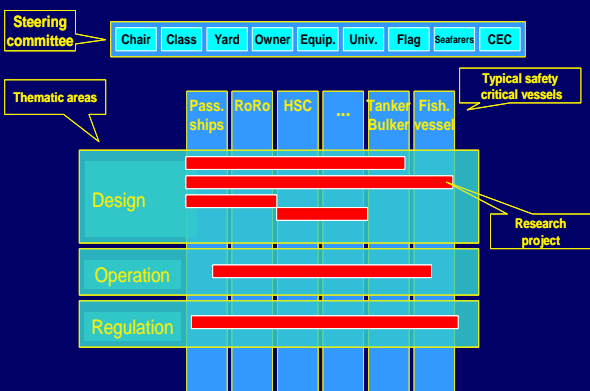


A Success Story

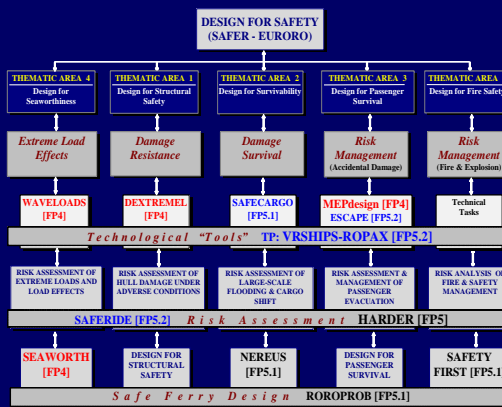
SAFER EURORO TN- Objectives

- Identify, develop and strengthen links and **synergies** between key groups and players engaged in ship safety research in Europe.
- Develop **integration** enabling methodologies.
- Provide **motivation** and **stimulation** for technological innovation.
- **Monitor** and strategic analysis of research.
- Facilitate **technology transfer**.
- **Disseminate** and **exploit** research findings.
- Define scope for **targeted** research on DFS

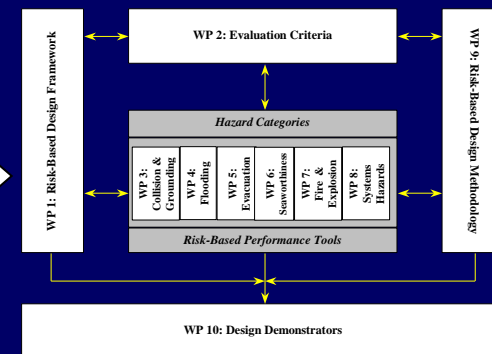
SAFEDOR DOR for Safety



SAFER EURORO Design for Safety



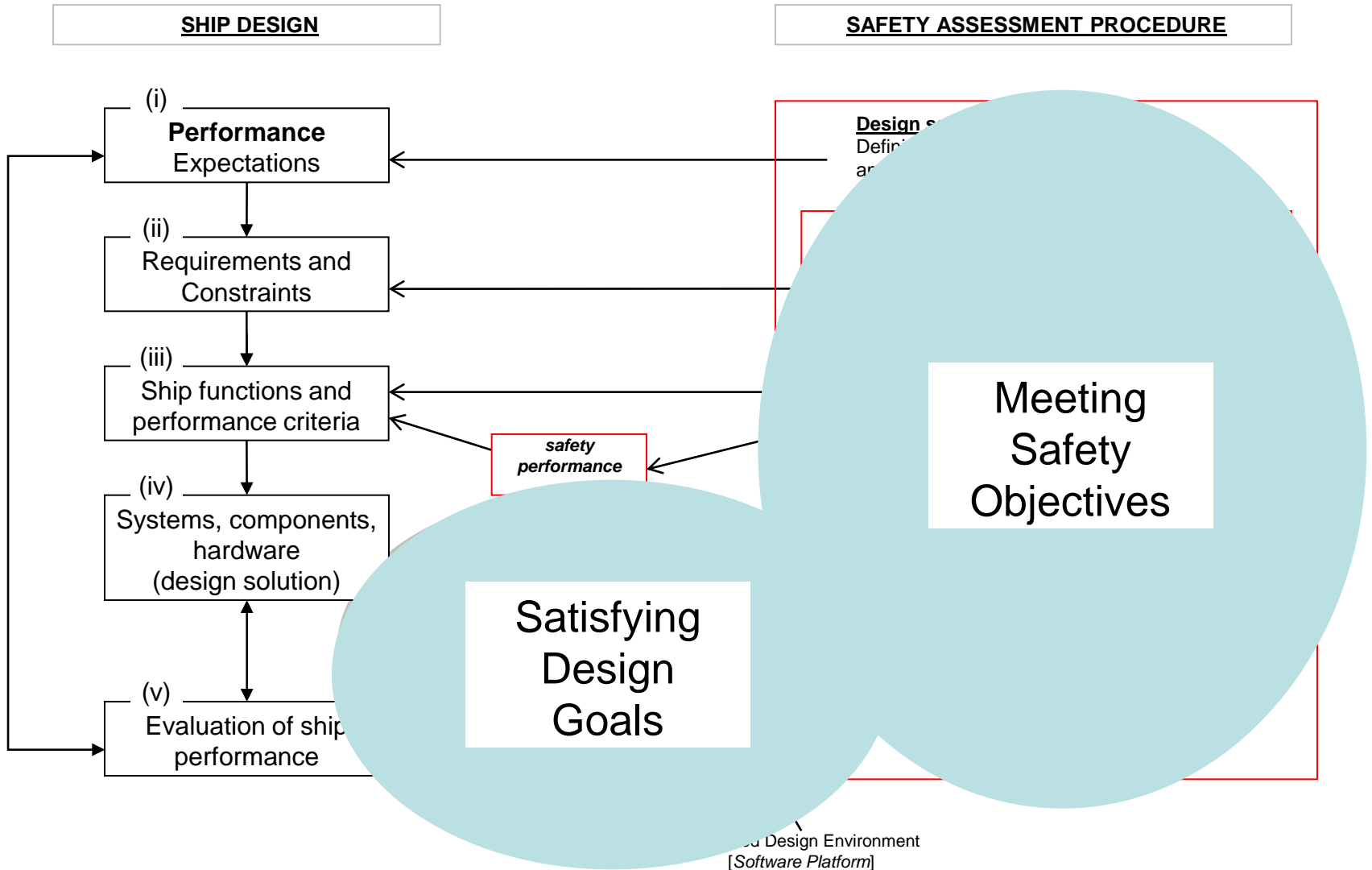
SAFER EURORO II Risk-Based Design





A Success Story – RBD High Level Framework

RBD → Design with known safety level





A Success Story

The largest cruise ship ever build is an RBD ship



RBD now permeates design, operation,
regulation in the marine industry



Paving the Way Forward

- Focus on bestowing an effective process by:
 - nurturing **wider** stakeholder **participation** (foster closer collaboration between industry and academia, re-enact TNs)
 - making innovation cycle **virtuous** (fuel vision, nurture quality – road-mapping, selection, monitoring, impact, feedback)
 - striving for **efficiency** (focus on integration and synergy; user-friendly high level support)
 - celebrating success; after all, **success breeds success!**