CO^2REOPT

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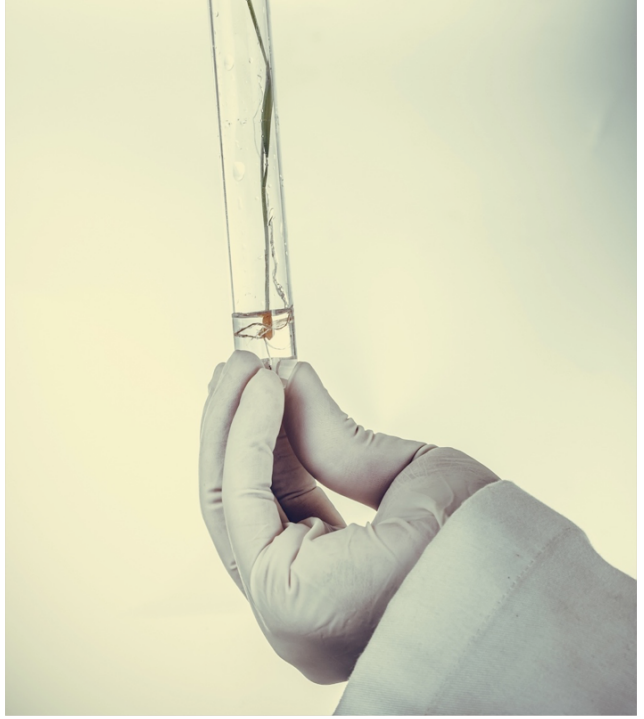
RISE ICT
SICS



Coordination of core European supply chains using optimization

- Start 2016-07-01, end 2018-06-30
- ERA-NET-project
- Two major cases:
  - Integrated resource optimization on the iron ore corridor
  - Optimization of synchromodal transport in the corridor by Samskip

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Case Malmbanan – SICS+RSM

- Robust timetabling with efficient vehicle utilization
  - Vehicle resource constraints integrated in timetabling
  - Robustness in freight transports and on railway line
  - Whole Malmbanan: Luleå-Narvik

Case Malmbanan - SINTEF

- Cross-Border Optimal Dispatching with resource consideration
  - Adaption of SINTEF dispatching knowledge to Malmbanan (Kiruna-Narvik)
  - Cross-border strategies: Optimal dispatching and operation w.r.t. limitations given by border aspects
  - IM **and** operator resources: track, vehicles, inventories, supply&demand for goods/ore, …

Case SAMSKIP - RSM

- Tactical planning for SAMSKIP Scandinavian rail operations
  - Select which trains to operate each day
  - Consideration to vehicle availability, robustness and service levels

TACK!

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