# 1st Collab workshop 11.-13. April 2010 Themes and goals

- Collab project – common understanding
  - parallel methods for VRP and SPP
- Survey and future trends
  - architectures, platforms, environments, frameworks ... for parallel and heterogeneous computing
  - methods for VRP and SPP
- Present recent / ongoing work / plans
- New ideas
- Collab plans
- Have fun ...

# Participants

- Michel Gendreau, CIRRELT
- El-Ghazali Talbi, INRIA
- Thé Van Luong, INRIA
- Olli Bräysy
- Andreas Reinholz
- Arne Løkketangen, Høgskolen i Molde
- Jin Jianyong, Høgskolen i Molde
- Trond Runar Hagen, SINTEF
- Oddvar Kloster, SINTEF
- Atle Riise, SINTEF
- Christian Schulz, SINTEF
- Morten Smedsrud, SINTEF
- Geir Hasle, SINTEF

# Sketch of program (1)

- **Surveys**
  - Collab project          Geir
  - Parallel and heterogeneous computing      Trond
  - Parallel VRP          Geir
  - Parallel SPP          Oddvar
- **Targeted problems**
  - Waste management          Olli
  - Media product distribution          Geir
  - Decomposition and aggregation heuristics for solving large-scale multi-criteria DVRPs      Geir
  - Rich VRP          Geir
  - Dynamic SPP in intermodal transportation      Oddvar

# Sketch of program (2)

- Recent / ongoing / planned work
  - Metaheuristics on GPU                                    Thé Van
  - GPU-based Local Search for Permutations        Atle
  - Multi-threaded Spider (sic!)                             Morten
  - VRP solver based on heterogeneous computing   Christian
  - Parallel VRP solver                                        Andy
  - Decomposition and parallelization for the VRP   Michel
- Ideas
- Plans

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