Abstract: Natural Resources include renewables such as forests, agriculture and water, as well as non-renewables such as minerals and fossil fuel. Each area has its own value chain that is managed through complex adaptive systems driven by socio-economical, technological and environmental forces, and are driven by many interconnected public and business interests. The areas have many characteristics in common, for example, large volumes, large geographical areas, many companies, large values, many stakeholders, and multiple conflicting objectives. This results in many challenging logistics planning problems. In this presentation, we outline a set of applications and describes how advanced analytics and optimization can be used to tackle them. The applications comprise of collaboration, transportation, routing, and value chain management in all areas in natural resources.

Biography: Mikael Rönqvist is a professor in industrial engineering at Université Laval (Département de génie mécanique). He currently holds a Canada Research Chair (tier 1) in Operations Research in Natural Resources. He is a member of the research organisations/networks FORAC, CRDM and CIRRELT. His research interests are in the areas of industrial and practical use of Operations Research. He has been involved in the development of many industrial decision support systems based on optimization, in particular in the forest industry. Professor Rönqvist completed his Ph.D. in optimization at Linköping University (Sweden) in 1993. He has held academic positions in Sweden, New Zealand, Norway and Canada.

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