



# Opportunities for circular economy in project-based industries

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- Center for Research on Operations,  
Projects, and Services (CROPS)
  - [research.tuni.fi/crops-en](https://research.tuni.fi/crops-en)
- Key research areas
  - Delivery of complex bespoke  
systems
  - Circular economy
  - Inter-organizational relationships  
and networks
  - Management of project-based  
firms



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<https://scholar.google.fi/citations?user=SNXc1GYAAAAJ&hl=fi>

# Recent & ongoing CE research in our research group

## Theme 1: Circular economy of bespoke solution deliveries

- CE research is concentrated towards products with large batch sizes and services that are largely standardized
- Significant unexplored CE opportunities relate to major investment projects in infrastructure and production assets, as:
  - Approximately 1/3 of all economic activity in Western economies is project-based (Schoper et al. 2017)
  - The life-cycles of investment assets are typically years, or decades
  - The actor delivering the asset is often not the actor utilizing it – there is a lack of optimization across life-cycle phases

## Theme 2: Role of data, information, and knowledge management in advancing circular business

- Current CE research emphasizes the importance of closing, narrowing and slowing biological and technical material cycles (e.g. Ellen MacArthur Foundation 2013)
- According to our recent research project (2006-2009), the gradual progress of CE in many industries is largely explained by the lack of information sharing and utilization in networked contexts involving multiple business actors
- Information (how it is shared and managed) is the key for unlocking circular business of the future, it is the missing third dimension of the circular economy framework

# Proposal

## We are looking for

- New contacts for research collaboration
- A coordinator actor either developing a project proposal that is looking for mutually beneficial research collaboration
- A project that would a) benefit from our expertise b) allow the development of new collaborative research ties between our research group and your group
- Theme of project could relate to e.g. to circular economy, information and communication technologies, and/or innovative public procurement

## We offer

- Internationally recognized research group of 4 professors in the area of system deliveries, operations management, supply chains, & service provisioning
- Considerable experience in research on CE & delivery of bespoke systems, experience in publishing as well as international research collaboration
- Active & significant participation in the preparation of the project proposal



# Contact

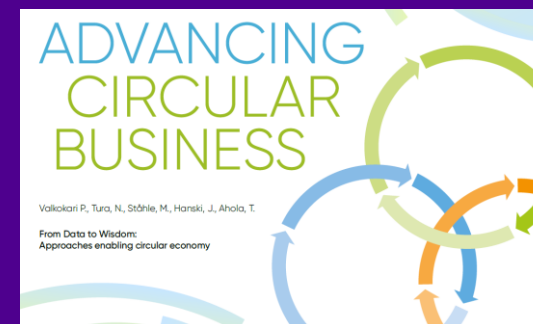
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