

# Enterprise-wide Socio-Technical Change: *Theory, Design, and Intervention*

In recent decades, we have witnessed several trends affecting the role, growth, and complexity of IT/IS in corporate environments. Among these trends are the e-business revolution of the 2000s, the business intelligence and data analytics wave of the 2010s, and only recently the discussion of digitalization within and beyond organizations, presently framed under the name of the Digital Transformation. What these trends have in common is the increasing IT/IS-based enterprise-wide integration of various components, e.g., the integration of sales channels in e-business, the enterprise-wide integration of data in business intelligence and analytics, or the cross-organizational integration of customers and partners in digitalization initiatives. These developments significantly increased the size and dependencies, and thus the complexity of organizational or cross-organizational IS architectures. These enterprise-wide changes of technology components can only be understood in their social context.

As a result, different disciplines such as IS/IT governance, enterprise architecture management, or bi-/multi-modal IT management approaches emerged to coordinate short-term IS change initiatives in the context of global, enterprise-wide, and long-term objectives.

This track aims at exploring such socio-technical change from an enterprise-wide perspective, i.e., within an organization or in enterprises spanning several organizations. We aim to discuss **theoretical perspectives** as well as **designs of prescriptive artifacts and interventions** to understand and guide the emergence of enterprise-wide IS architectures.

Topics of interest of this track include but are not limited to:

**Theoretical contributions** in challenging or broadening the extant understanding of enterprise-wide socio-technical change as well as **Design and Intervention contributions** in implementing enterprise-wide socio-technical change:

- Process theory-based (vs. variance theory-based) theorization of socio-technical change
- Socio-technical ensembles, duality, and fusion in IS phenomena
- Enterprise-wide socio-technical transformation and re-orientation
- Emergence, complexity, control and governance of enterprise-wide socio-technical change
- Architectural perspectives on enterprise-wide socio-technical change
- Coordination perspectives on enterprise-wide socio-technical change, e.g., enterprise-wide coordination of IS change projects
- Conflicts of global vs. local change initiatives (top-down control vs. bottom-up emergence)
- Enterprise-wide perspectives on IS analysis, design, and modeling
- Enterprise-wide perspectives on implementation and management of IS initiatives

**Methodological approaches** in examining enterprise-wide socio-technical change:

- Established methods such as case study, survey, and design science research
- Distinctive, novel methods such as simulation, experiment, and action design research
- Longitudinal and multi-level analyses

## Track Co-Chairs

1. **Prof. Dr. Stephan Aier** (primary contact)  
Institute of Information Management, University of St. Gallen, Switzerland  
[stephan.aier@unisg.ch](mailto:stephan.aier@unisg.ch)
2. **Prof. Dr. Henderik A. Proper**  
Luxembourg Institute of Science and Technology (LIST) and Radboud University  
Nijmegen, the Netherlands  
[e.proper@acm.org](mailto:e.proper@acm.org)
3. **Prof. Dr. José Tribolet**  
Full Professor, Information Systems, Department of Computer Science and Engineering,  
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal, and President,  
INESC, Lisbon, Portugal  
[jose.tribolet@inesc.pt](mailto:jose.tribolet@inesc.pt)

## Associate Editors (confirmed)

- Ida Asadi (Australia)
- Daniel Fürstenau (Germany)
- Kazem Haki (CH)
- Pontus Johnson (Sweden)
- Marc Lankhorst (Netherlands)
- James Lapalme (Canada)
- Martin Mocker (US)
- Nils Urbach (Germany)