



## TIPS TRAINING WORKSHOP

### DATE

28 & 29 August 2024

### COST

R7000 (Vat incl) per delegate

### VENUE

TIPS Offices  
234 Lange Street  
Nieuw Muckleneuk  
Pretoria

### FOR MORE INFORMATION CONTACT:

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# TECHNOLOGICAL CHANGE AND INNOVATION SYSTEM TRAINING

## AIM

We are bombarded daily by messages of the Fourth Industrial Revolution, of technological disruption and the future shocks that lay ahead for the workers and workplaces. It is often hard to decipher the implications for our work, key industries, and society. At the same time, indicators of South Africa's innovation performance and longer-term technological capabilities show a concerning downward trend. But we don't need the statistics to tell us what we can see when we visit companies or workplaces. In almost every sector, a handful of companies are thriving by being innovative. In contrast, a large group of companies appear to lag technology and innovation trends. In many sector strategies and industry action plans, technology is treated generically. The result is that those who can, innovate; and those who can't, fall further behind.

This course will focus on the factors that shape our industries' ability to learn about new technology and the ecosystem that supports innovators. It will help participants to discern the noise from the signal and equip them to help industries or other stakeholders better observe, anticipate and strategically respond to technological change opportunities.

## APPROACH

While we will discuss theory, the purpose will be to improve intervention design to catalyse innovation, technological upgrading and change in the industries or ecosystems where participants work. Participants will be able to apply the learning directly to their work areas. Prior knowledge and experience in managing innovation are not necessary for this workshop.

## AGENDA OUTLINE

### Day 1:

**Session 1:** The relations between science, technology, innovation and technological change

**Session 2:** How physical and social technologies co-evolve and the different modes of learning

Exercise & feedback: How learning about technological possibilities takes place in different sectors

**Session 3:** Identifying and characterisation of different kinds of technological change in the economy

**Session 4:** South Africa's innovation performance

Exercise & feedback: Tracking the innovation performance of sector, technology or project

### Day 2:

**Session 5:** How industries learn, disseminate knowledge and build competencies

**Session 6:** Mapping the institutional systems that enable technological change and innovation

Exercise and feedback: How to diagnose and improve the innovation potential in a sector or region

**Session 7:** How to build distributed technological intelligence and technological competence in industries we support?

**Session 8:** How to apply this content in your work and resources going forward

## ABOUT THE FACILITATOR

**Dr Shawn Cunningham** is the project leader of the Technological Change and Innovation System Observatory implemented by TIPS.

He is a process consultant with Mesopartner, working in innovation and competitiveness improvement. He supports a range of institutions, leaders and advisors on topics such as making decisions under conditions of uncertainty or complexity, strengthening organisations or conducting learning processes through ongoing search, discovery and adjustment. He has conducted diagnoses and supported improvement processes in various industries and locations around the world

He is also a Professor of Practice with the DST/NRF/Newton Fund Trilateral Chair in Transformative Innovation, the Fourth Industrial Revolution and Sustainable Development hosted by the College of Business and Economics at the University of Johannesburg.

For more information on the TIPS Technological Change and Innovation System Observatory visit <https://www.tips.org.za/projects/technological-change-and-innovation-system-observatory>



Note: The offering of the workshop is dependent on attracting a minimum number of 10 students by the time of the payment closing date while the maximum number of students is 20. Note that TIPS will not make refunds after the payment due date unless the workshop is cancelled. TIPS's invoice documentation (tax clearance, bank clearance, etc) will only be sent on request by registered post. It is therefore important to make sure that TIPS is on your organisation's list of preferred suppliers and to factor-in sufficient time for these processes