



THE FIRST BRIDGES 5.0 MASTERCLASS: Friday, 12th December 2025

How to build a human-centric workplace







Content of my chat

- 1.What is a human-centric workplace?

- 2.Start from employee demands ('job satisfaction') or customer demands (procurement satisfaction')?

- 3.Take away message: LowLand Sociotechnical Job Quality Design (LLST-

JQD) serves both demands







1.WHAT IS A HUMAN-CENTRIC WORKPLACE?



"... a human-centric approach in industry puts core human needs and interests at the heart of the production process.

Rather than asking what we can do with new technology, we ask what the technology can do for us.

Rather than asking the industry worker to adapt his or her skills to the needs of rapidly evolving technology, we want to use technology to adapt the production process to the needs of the worker, e.g. to guide and train him/her.

It also means making sure the use of new technologies does not impinge on workers' fundamental rights, such as the right to privacy, autonomy and human dignity."





Source:

Breque et al., 2021: p. 14



Human-centricity

- Core human needs: autonomy, competence, relatedness (self-determination theory)
- Human interests: job satisfaction and economic well-being, but also individual preferences for specific tasks and environments (SMART work design model)
- Augmenting and supporting technology, adaptation to the human
- Recognize workers' fundamental rights

Workplace

- The heart of the production process: the place or work station where
 people carry out their work, where their tasks are executed, which is in their
 job (a set of tasks and activities that result in a certain output)
- Job quality: the characteristics of tasks allocated to a job





Human-centricity workplace

- High Job quality
- > fulfils human needs
- > fulfils human interests
- > free of technological threats
- > free of impingement of rights
- > free of occupational health and safety risks and performance (productivity) risks





2.START FROM EMPLOYEE DEMANDS ('JOB SATISFACTION') OR CUSTOMER DEMANDS ('PROCUREMENT SATISFACTION')?



Job satisfaction

- Refers to the level of contentment employees feel with their jobs, significantly impacting their overall well-being and productivity
- How persons experience work characteristics
- Advantage: easy to measure
- Disadvantages:
- > individual evaluations of similar work characteristics may differ
- satisfaction evaluations tend to adapt to the situation (70% rule)
- > dissatisfaction points to issues with work characteristics but do not tell what exactly needs to be changed
- > improving job satisfaction tends to lead to individualise problems which are often organisational instead of personal, and tend to combat symptoms not causes of issues
- Thus: design a job of high job quality

Customer satisfaction is



linked to employee satisfaction

- Why and how?
- Design of production process > efficiency, effectiveness, flexibility, quality, innovativeness > customer gets good products at competing prices
- Design of the management / control structure > division of labour that requires minimised coordination needs, technology must augment the worker > less bureaucracy and technological determinism
- Design of jobs > 'simple organisations with complex jobs', instead of 'complex organisations with simple jobs' > 'active jobs' enables job satisfaction



Sources: De Sitter et al., 1997 Kuipers et al., 2020

Motivation and learning Active work ow strain High (low demand -(high demand high control) high control) Job control Passive work Nigh strain (low demand -(high demand – Low ow control) low control) High Low Stress Job demands Figure: Job demands-control model (JD-C model) (Karasek & Theorell, 1990: 32)



Active Jobs / Active Work:

- -high demands > learning opportunities, productivity, innovative capability
- -high control > limited health and safety risks



LowLands Sociotechnical Job Quality Design:

- -limit the division of labour and coordination need, avoid risks and control problems at the level of jobs
- -all job keepers will benefit from the job design, regardless their individual job preferences







Take away message

- LLST-JQD integrates customer demands & employee demands which fits with human-centricity, and Industry5.0 goals
- Relation LowLands Sociotechnical Job Quality Design and Workplace Innovation (WPI)?
 - >WPI is based on LLST thinking
 - >Job Quality and Human-centricity are key elements
 - >LLST has strict design rules, WPI has not, but follows LLST
 - Thus: WPI is also helpful to build human-centric workplaces



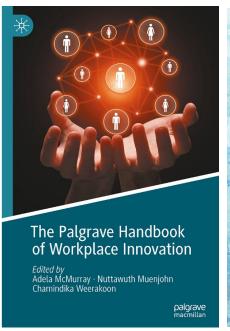
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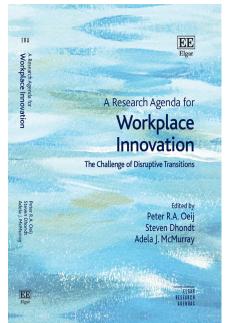
















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Extra slide as appendix: General sociotechnical design rules

