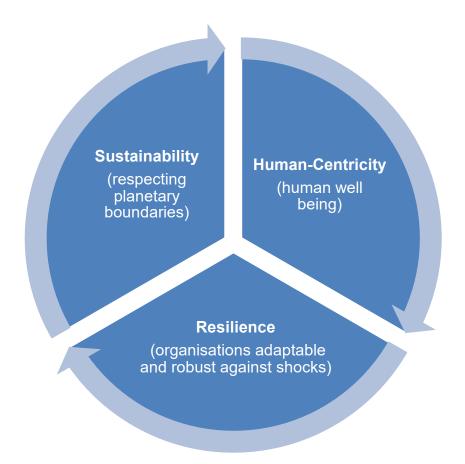




Learning in enterprises

Messages from the European Training and Learning Survey

Industry 5.0



Human-centricity in the workplace

- Technology enhancing workers' capabilities
- Ability to handle more complex tasks
- Firms can design jobs to include complex tasks
- Using human capital as an organisational resource to obtain competitive advantage (create value through people)
- Workers' empowerment and decision-making

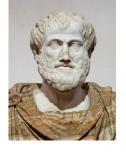






Complexity, empowerment and learning

- The reality of work today: complexity and the need for resilience
 - VUCA (volatile, uncertain, complex, ambiguous) environments
 - Technological and other shocks: new situations, uncertainty, unclarity about the right course of action, prevents the development routines
 - Stakeholder: task interdependencies and diverging interests between stakeholders (worker, team, department, organisation, consumers, and suppliers)
 - Difficult tasks relying on tacit and explicit knowledge
- Skills expressed as practical wisdom, incorporating
 - Expertise: pattern recognition, selective attention to salient features
 - Phronesis: the ability to do the right thing (moral dimension, interest of stakeholders)
 - Praxis: the ability to do things right (implementing practice from theory)
- In complex environments gaps emerge between what one ought to know (or do) and what one knows and can do (has the skills to do) tend to emerge



Learning and skills development



- Learning
 - Skills acquisition: learning specific skills and/or knowledge (transfer of training)
 - Skills development: development of practical wisdom
- Skills development as outcomes of explicit (conscious and intentional) and implicit (unconscious and automatic) learning processes
- Practical wisdom: relationship between new and existing knowledge
 - can be assimilated in an existing understanding of one's job
 - may challenge the current understanding of one's job and may need to be accommodated via new understanding of what doing one's job well entails (transformative learning)
- Skills development is a non-linear process: it depends on when and how the new information and skills interact with the existing body of knowledge and skills



Cedefop's European Training and Learning Survey (ETLS)

- Aims to open the black box of learning in the workplace and to understand which individual and contextual factors play a role in skills development
- Distinction between learning (for work, skills development) and the process of learning (participation in learning activities)
- The process of learning:
 - Focus on frequency of participation in learning activities (extensive margin)
 - Distinction between:
 - Mandatory and behavioural learning (induction, health and safety, anti-harassment)
 - Employer organised learning activities (on-the-job and off-the-job training)
 - Workers' self-initiated learning activities.
- Pays attention to the effects of organisational context on skills development and on participation in learning activities



- Carried out in all EU Member
 States plus Norway and Iceland
- Fielded between October 2023 and February 2024
- Combination of CATI and CAWI
- Additional questions in CAWI interviews
- Weights applied: Age and gender, education, occupation, sector, region



Understanding skills development

	In the last 12 months/Since you started your main job, to what extent have you become better, if at all, at any of the following aspects of your work?
1	At understanding how my work can be done better
2	At solving problems at work
3	At doing my job tasks with less supervision
4	At understanding the tasks I need to do
5	At knowing whether I am doing a good job
6	At describing how I do my work to colleagues
7	At avoiding mistakes at work
8	At making better decisions at work
9	At performing different job tasks
10	At doing my job tasks faster
11	At doing my job in a way that does not harm the environment, i.e., by reusing materials, reducing waste or energy.



Employer organised learning activities (learning for work)

- 1. Participation in the last 12 months in
 - Induction training
 - Health and safety training
 - Workplace behaviour training (inclusion, anti harassment)
- 2. Participation in any other work-related training (in person and online, inside or outside the workplace)?
- 3. If YES, frequency of participation in training via two delivery modes
 - Off-the-job: while not doing my everyday job tasks (classroom or training facility)
 - On-the-job: while doing my everyday job tasks



Participation in self-initiated learning activities

- Focus on frequency of activities in the last 12 months
 - Aimed at work-related learning (for your work)
 - Not organised by the employer
 - On worker's initiative
- Learning activities foreseen:
 - Use books, manuals, audio or video materials, including online
 - Learning through work
 - Try out different ways of doing my work
 - Think of ways I could do my work better
 - Seek advice from more experienced colleagues
 - Seek advice from managers or supervisors
 - Watch or listen to colleagues as they do their jobs
 - Training (in person or online)



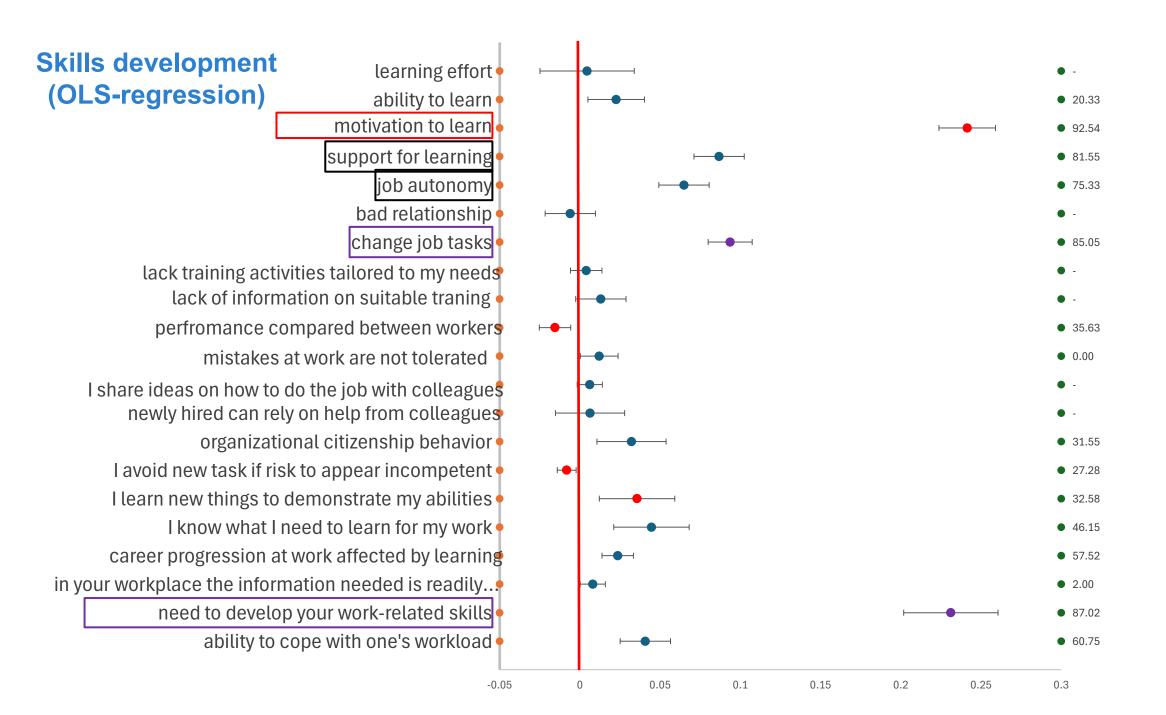












The individual and the context

- Motivation: internal and external regulation
 - Autonomous: intrinsic (personal interest), integrated (when values of activity overlaps with personal values)
 - Controlled: external (incentives), identification (with values of activity), introjected (guilt for not meeting expectations and social norms)
- Skills gaps:
 - Personal: underskilling
 - Induced (change in job tasks), contextual
- Support: supervisors and colleagues (work context) and family and friends (external context).
- Autonomy: contextual, job design decisions
 - Influence on decisions
 - Work independently
 - Unexpected situations
 - Variety of tasks





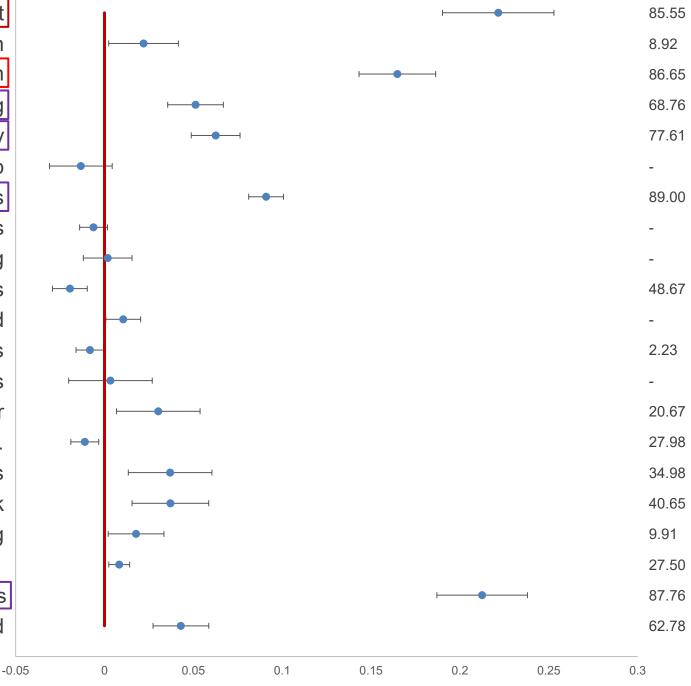
Skills development and learning activities

- Higher frequency of participation in learning activities shows no significant association with skills development
- Skills development is a non-linear process, difficult to predict when the input (new knowledge) contributes to the output (skills development)
- But: no skills development without participation in learning activities
- Skills development is positively associated with the breadth of learning activities that contribute to one's learning



importance of learning activities for skill development ability to learn **Skills development** motivation to learn (OLS-regression) support for learning job autonomy bad relationship change job tasks lack training activities tailored to my needs lack of information on where to find traning perfromance compared between colleagues mistakes at work are not tolerated I share ideas about how to do the job with colleagues newly hired can rely on help from colleagues organizational citizenship behavior I avoid new task if there is a risk to appear incompetent to... I learn new things to demonstrate my abilities to others I know what I need to learn for my work career progression at work affected by learning in your workplace the information needed is readily... need to develop your work-related skills

ability to cope with one's workload



Key take-aways - skills development reacts to context

- Underskilling is a driver of learning
- Frequency of participation in learning activity is only distally related to skills development but the breadth of activities one learns from is proximally related to skills development
- Learning culture plays a crucial role
 - job design (autonomy, change in job tasks)
 - Support for learning
- Learning motivation: regulation of motivation and goal orientation
 - Sustain interest: autonomous and controlled by the contextual features
 - Motives: performance avoidance (-), performance approach (+)
 - Contextual focus on performance (-)





Thank you

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European Centre for the Development of Vocational Training

ETLS: learning process and other salient features

- Subset of the general population: employed adults (16-64 years of age)
- Carried out in 27 EU member states, Iceland, and Norway
- Modes (online samples could accommodate additional questions)
 - Telephone Random Probability Sample
 - Online Probability Sample
 - Non-probability Sample to increase sample size
- About 44.000 observations in all





Job complexity

- Task difficulty, amount of knowledge and skills
- High autonomy and decision-making
- Technology and changing technologies
- Interdependencies between
 - Tasks within jobs, choices regarding task A affects performance in task B
 - Jobs and people: they way job A is executed impacts the amount of work to be done by workers in jobs downstream (workslop)
- Number of stakeholders affected by decisions:
 - Colleagues: the worker, the team, the unit, the department, the establishment
 - Clients
 - Suppliers



