INDUSTRIE 4.0
term – relevance - impact on VET

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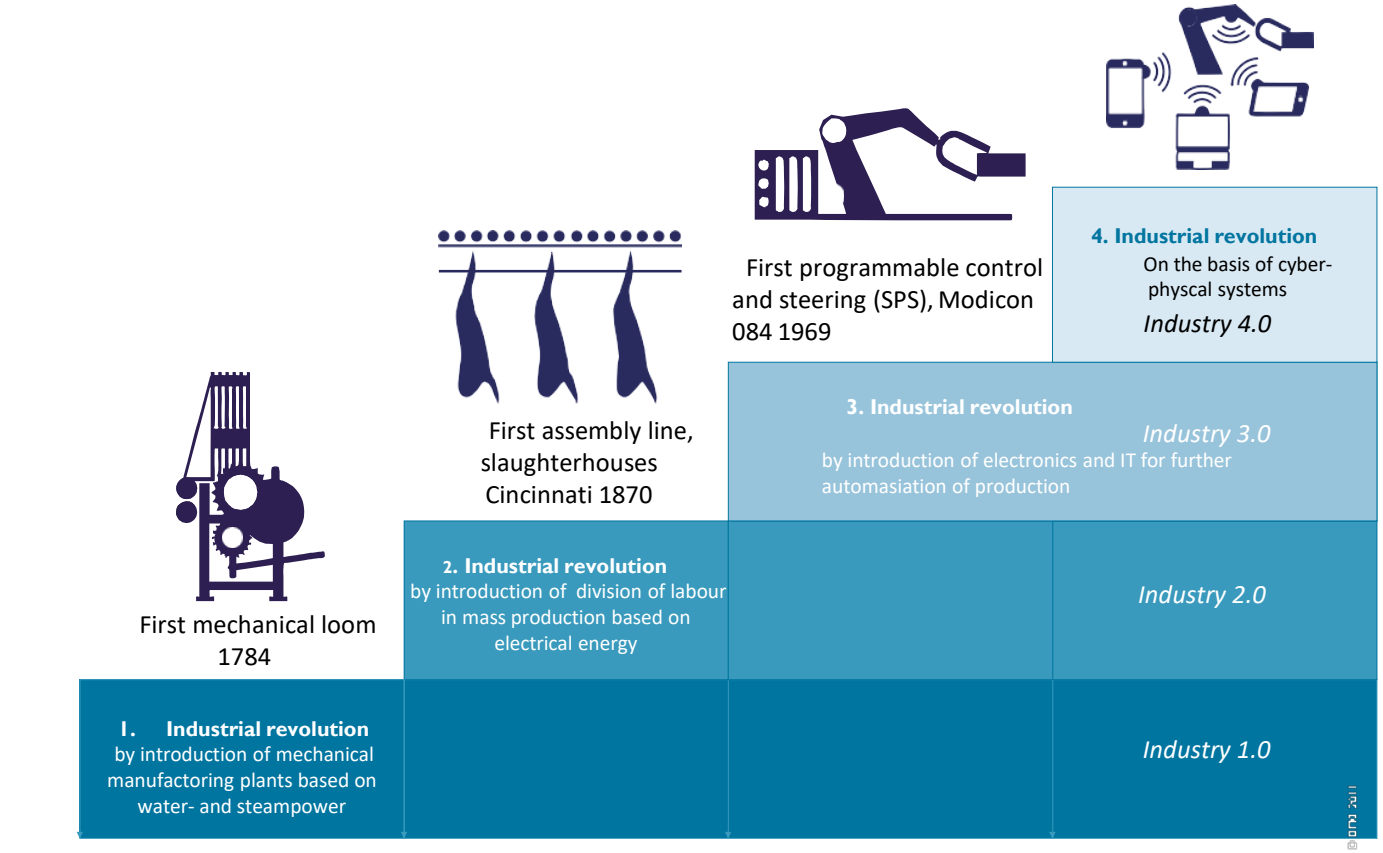
Term

INDUSTRIE 4.0

- name of the German strategic initiative to establish Germany as a lead market and provider of advanced manufacturing solutions.
- First time used in 2011 on Hannover Messe.



Source: based on BMBF (2017): Duale Berufsausbildung sichtbar gemacht; own translation

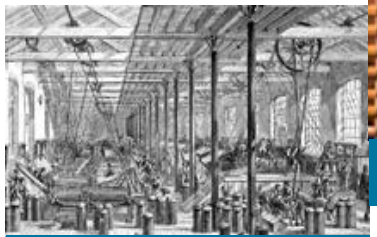
Term

- INDUSTRIE 4.0 opens the door to an age of “smart industry” in which people, devices and systems combine to form dynamic, self-organizing networks of production.
- INDUSTRIE 4.0 represents a paradigm shift from "centralized" to "decentralized" production.
- INDUSTRIE 4.0 means individualized production, e.g. direct configuration and order by a customer.

Relevance

- Changes work processes
- Impact on labour market – question of polarisation
- Impact on professions and occupations
- Impact on needed skills and competences
- Impact on relevance of life-long learning

Impact on VET



VET 1.0

Traditional form

From lifelong profession (mainly in the crafts sector) to skilled workforce in industry

End of 18th century

VET 2.0

Specialized form

Sector- and work specific VET on a conjoint VET basis

Beginning of 20th century

VET 3.0

Processoriented form

Autonomous and responsible acting in processes

Beginning of the 1970

VET 4.0

Extended form („erweiterte Beruflichkeit“)

Experience- and science oriented VET in a digitised and cross-lined working environment

Today

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Level of complexity

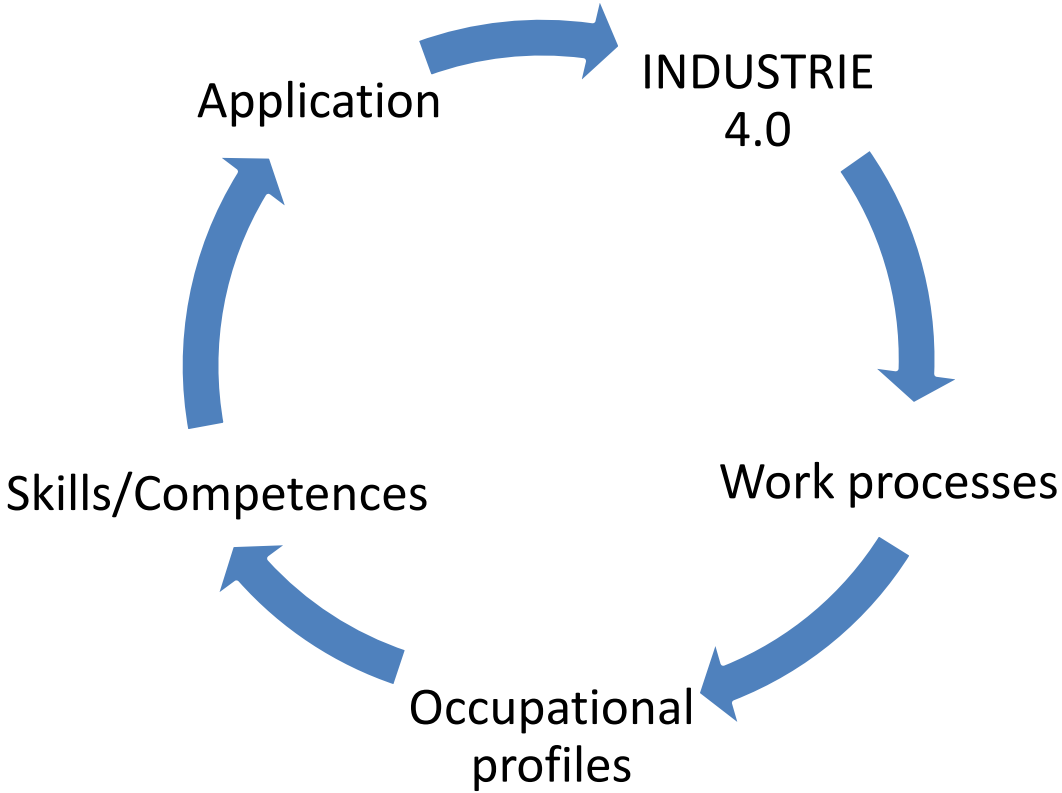
Source: based on BMBF (2017): Duale Berufsausbildung sichtbar gemacht; own translation

Impact on VET

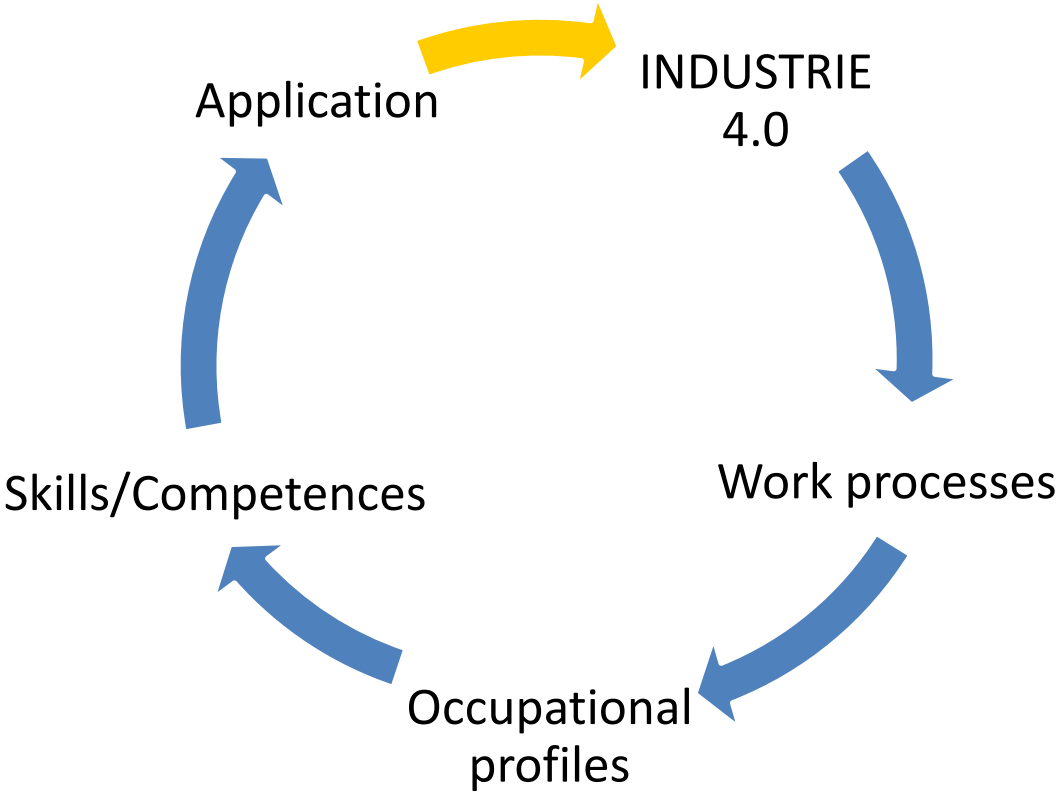
BMBF/BIBB umbrella initiative: VET 4.0

- Screening of occupational profiles and sectors: necessity for new occupations and new training regulations, e.g. mechatronics and IT professions
- Digital competences of trainers, teachers and instructors
- Impact on provision of VET: e.g. Learning processes, digital learning/learning media, communication platforms, e.g. "Digital Media in VET„-programme; evaluation of equipment in VET schools
- Impact on VET system, e.g. reform of BBiG

Relevance of VET 4.0



Relevance of VET 4.0



Questions? Feedback? Remarks?

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