



Veda v projektoch

Speaker, institution: Ing. Peter Cuninka, PhD., Slovak University of Technology

Location and date: STU MTF v Trnave, Slovensko

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Veda v projektoch



- O mne:
- Absolvent Slovenskej technickej univerzity v Bratislave,
Materiálovotechnologickej fakulty v Trnave
- Odbor: Automatizácia a Informatizácia Procesov
- Študijný odbor: Kybernetika
- Dizertačná práca: Bezpečnostné funkcie a evaluácia bezpečnosti
riadiacich systémov na princípe Safety PLC

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Veda v projektoch



- Spolupráca s výskumníkmi počas štúdia – MINERVA GROUP
- Ako som sa dostal od vedy k projektovému riadeniu



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Priemyselné revolúcie 1.0 – 4.0



1. Mechanizácia
Mechanická výroba

Výkon voda / para

Industry 1.0

Koniec 18. storočia



2. Industrializácia
Hromadná výroba

Elektrická energia

Industry 2.0

Začiatok 20. storočia



3. Automatizácia
Electrická automatizácia

Electronika / IT / PLC



Industry 3.0

Začiatky sedemdesaťtych rokov



4. Kyber-fyzikálne systémy
Integrovaná automatizácia

Kyber-fyzikálne systémy

Industry 4.0

Dnes

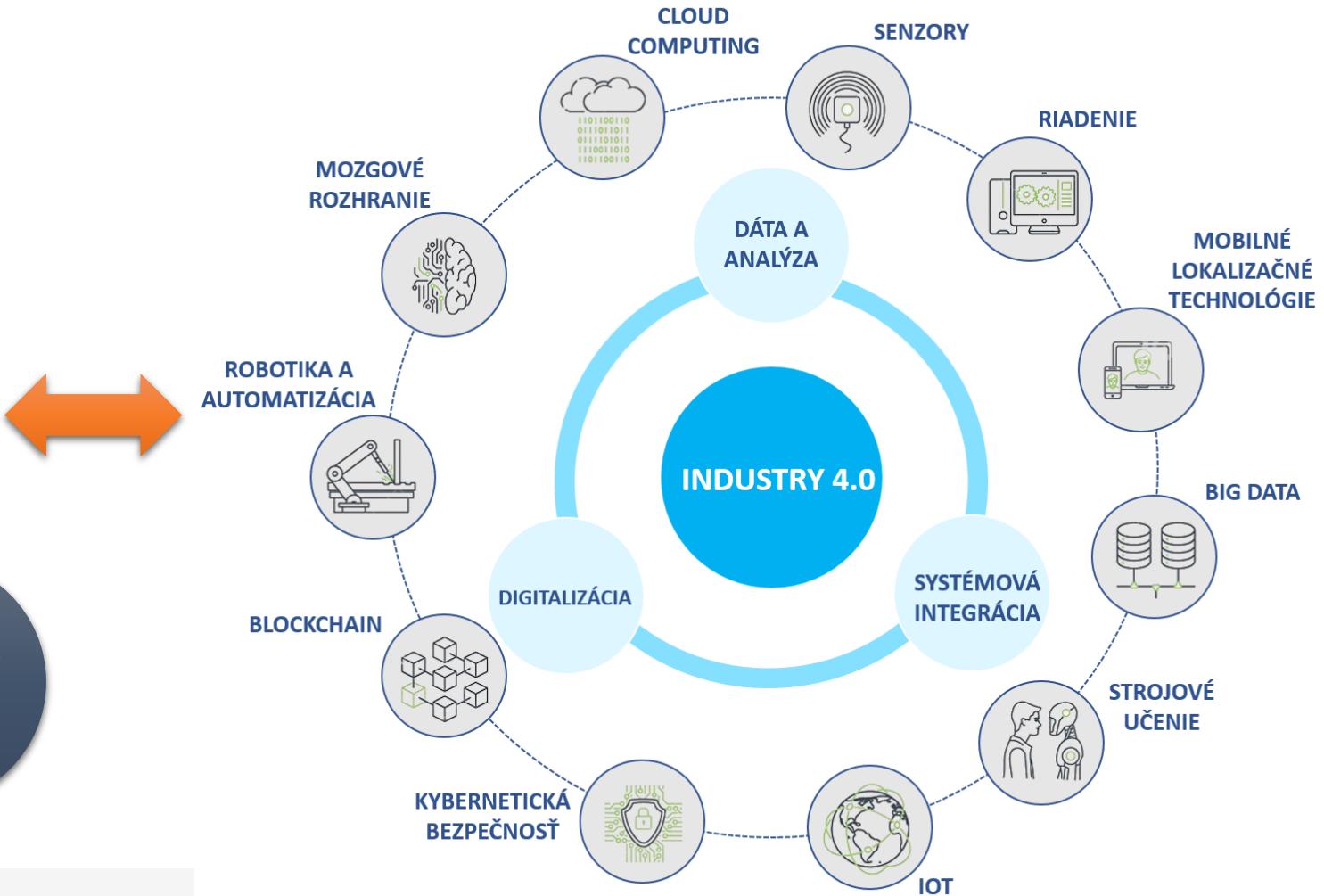
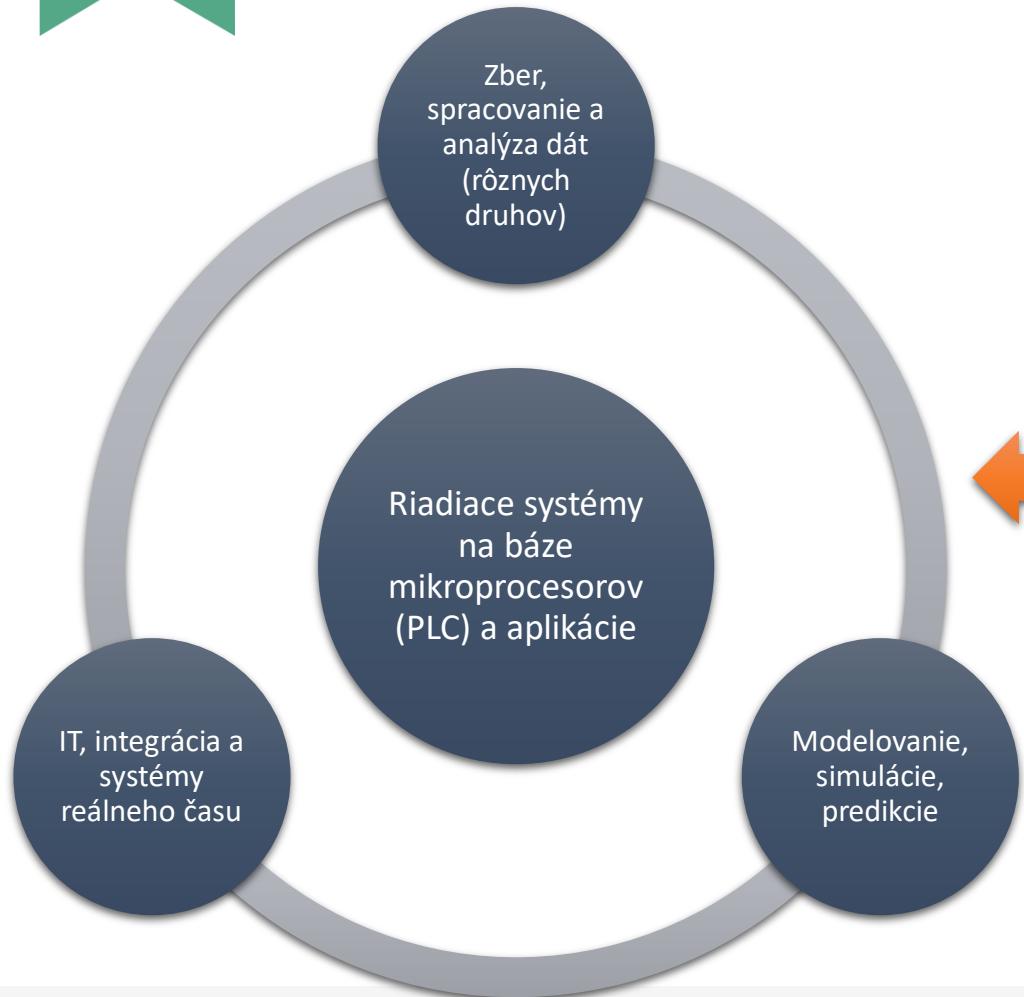
Kybernetika a Norbert
Wiener – 1948

1. PLC: MODICON 084 (D. Morley)

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Unipolárne integrované obvody,
tranzistory => miniaturizácia

Vedecká škola a Priemysel 4.0



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QUESTIONS & ANSWERS

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Thank you for your attention!

peter.cuninka@stuba.sk

www.proskillproject.eu

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