Digitalisation The Human Factor LEADERSHIP in times of change



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Digitalisation *The Human Factor* **LEADERSHIP** in times of change

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Industrial R(E)evolutions

Digitalisation INDUSTRY 4.0

Digitization

Beginning of 21th century

• IoT ·Daten, Daten, Daten built2order •just in time-Production artificial intelligence

 perpetual Disruption ongoing Change

... in any case ongoing and ever faster changes!

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INDUSTRY 1.0

Late 18th century mechanical loom

- mechanization
- hydropower
- steam power
- coal mining
- heavy industries

Revolution or Evolution?

Beginning of 20th century division of labor mass production electricity assembly lines •phone telegram typewriter

Globalisation

INDUSTRY 2.0

 aviation Beginning of Globalization

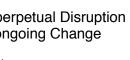
Early 70s of 20th century Computer, IT, PLC •use of computers Production-automation PC personal computer Continuing Globalization

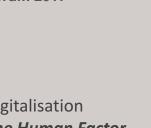
INDUSTRY 3.0

There have always been Social "Revolutions":

- the discovery of the fire, •
- the sedentarisation and agriculture,
- the invention of the wheel,
- the domestication of dogs and horses...
- ... *"our" stages of development*
- from Homo Erectus
- to Homo Sapiens
- to...?

and in the future...





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... and always there were winners and losers:

The Human Factor DITITAL provenance and competence

- according to provenance
 - Digital Native
 - has naturally grown up with digital technology
 - born after ~1980
 - Digital Immigrant
 - has come to know digital technologies as novelties
 - born before ~1980

according to competence

- Digital Resident
 - digital technologies, Internet is (has become) part of life
 - use of digital technology is (has become) self-evident
- Digital Visitor
 - uses digital technologies exclusively for defined purposes
 - no interest in *digital* social contacts
- Digital Ignorant

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Situation in the world of work the facts (of the situation in Austria)

- ~60% of the companies are "EPU"
 - and tendency is growing
- ~67% in "Gewerbe & Handwerk"
- ~61% in "Information & Consulting"
- ~49% in "Handel"
- ~35% in "Transport und Verkehr"
- ~33% in "Tourismus und Freizeitwirtschaft"
- ~11% in "Industrie"

...the average age is 46 years ...the proportion of women is ~51%



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Digitalisation what that changes (inter alia)

- Value chains
 - are broken up
 - stations are eliminated
- Jobs
 - will be relocated to home
 - HomeOffice
 - will be outsourced or completely eliminated
 - Outplacement Consulting

 Rapid rising in the number of "EPU"

- not only "StartUps"!
- necessary response
 - adapt the leadership
 - in SME (and larger ones)
 - establish leadership in "EPU" too… (project-related teams)



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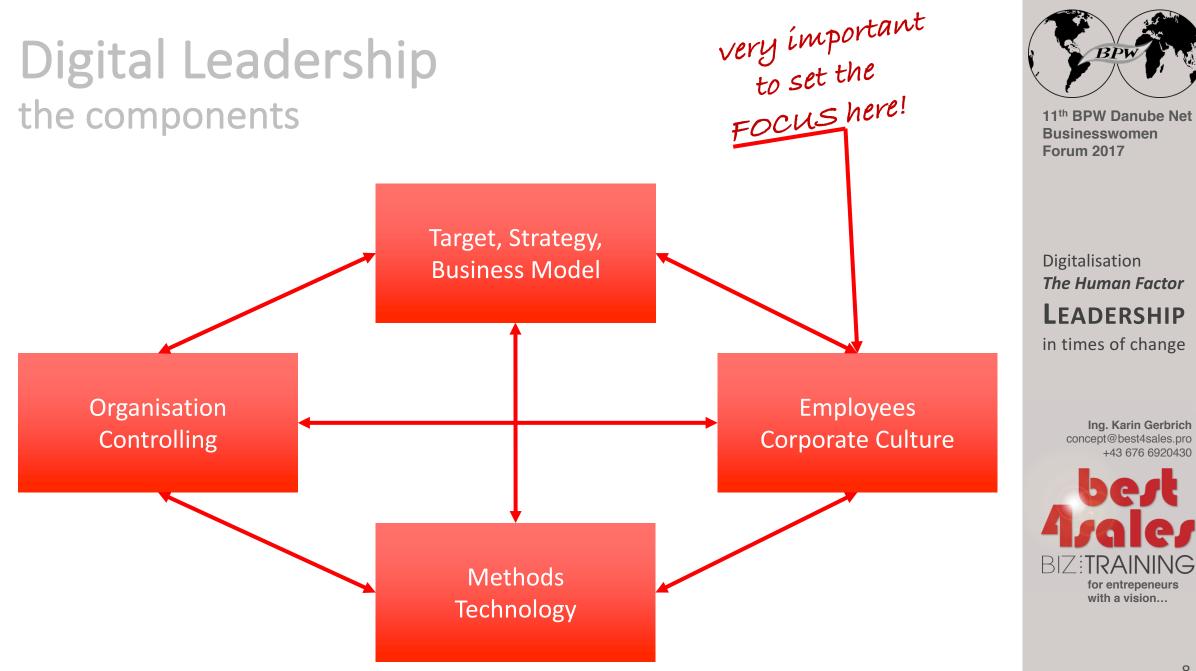
Changes in the worlds of work the facts (of the situation in Austria) Challenges for SMEs and larger Needof communication lack of social • *Tendency to HomeOffice* contacts at work Leadership means communication appreciable competition by "EPU" decrease in business Needof Leadership significant competition from global companies build2order possíble remedy: make a competítor online shops certainly "robbery" of consulting service! ٠ to a TEAM-partner

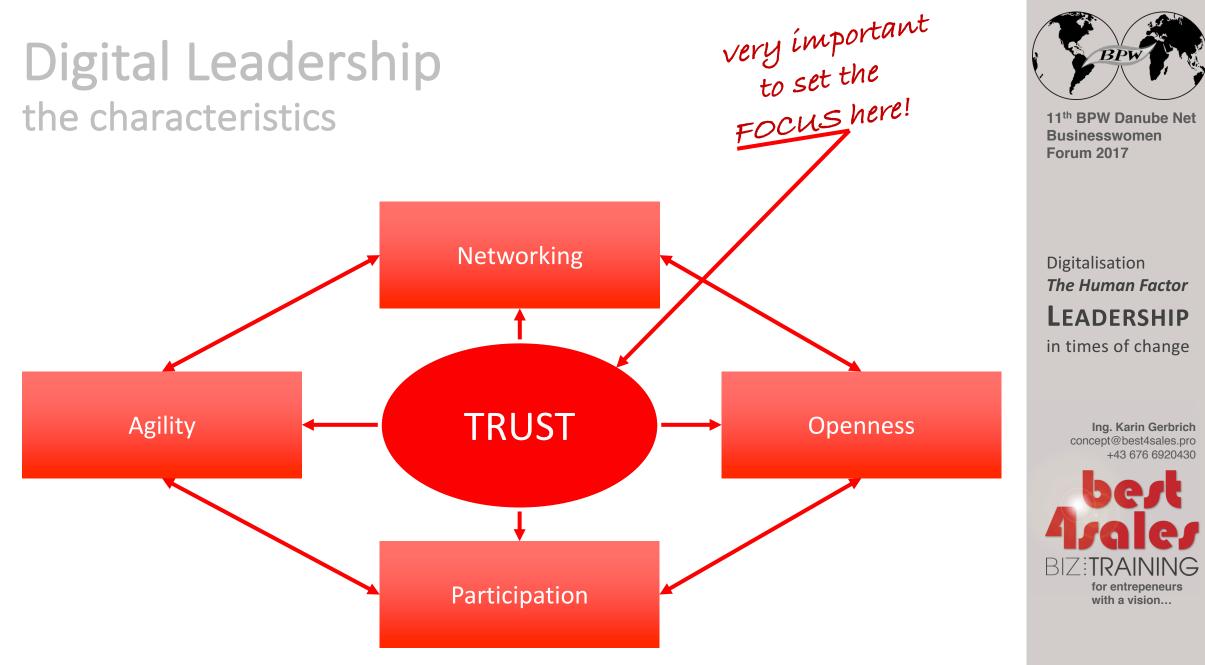


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AGIL

{latin *agilis*: nimble, fast, agil}



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worlds of work change have changed will continue to change

10

Taylorism (19th century, 1st and 2nd Industrial Revolution)

Target

- Increase of productivity
- Increase of quality
- Split complex activities into simple ones
 - there is "one best way"
- Work without thinking
- Fixation of place and time of employment

Characteristics

- easy to follow work instruction
 - "Job-Description"
- impersonal
 - Employees are interchangeable
- lack of identification with the company
- Motivation purely monetary
 - Piece work



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the AGILE approach (End of 20th century, 3rd, 4th Industrial Revolution)

Target

- Increase of productivity
- Increase of quality
- Be able to respond more flexibly to changes
- Concentration on
 - The targets to be achieved
 - *NOT* on ingrained processes
- Origin
 - Software development

Characteristics

- Agile values
 - As a basis
- Agile principles
 - Based on agile values
 - Forms action principles
- Agile Methods
 - Specific procedures
 - Based on values and principles
- Agile Process
 - Summary of all methods



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the AGILE Manifest (February 2001)

> We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactionsoverprocesses and toolsWorking softwareovercomprehensive documentationCustomer collaborationovercontract negotiationResponding to changeoverfollowing a plan

That is, while there is value in the items on the right, we value the items on the left more.



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AGILE Methods

• OKR

- Objectives & Key Results
- similar but different to MBO

SCRUM

- for teams of three to nine
- LEAN and KANBAN
 - Recipe for success of Toyota

OKR and SCRUM

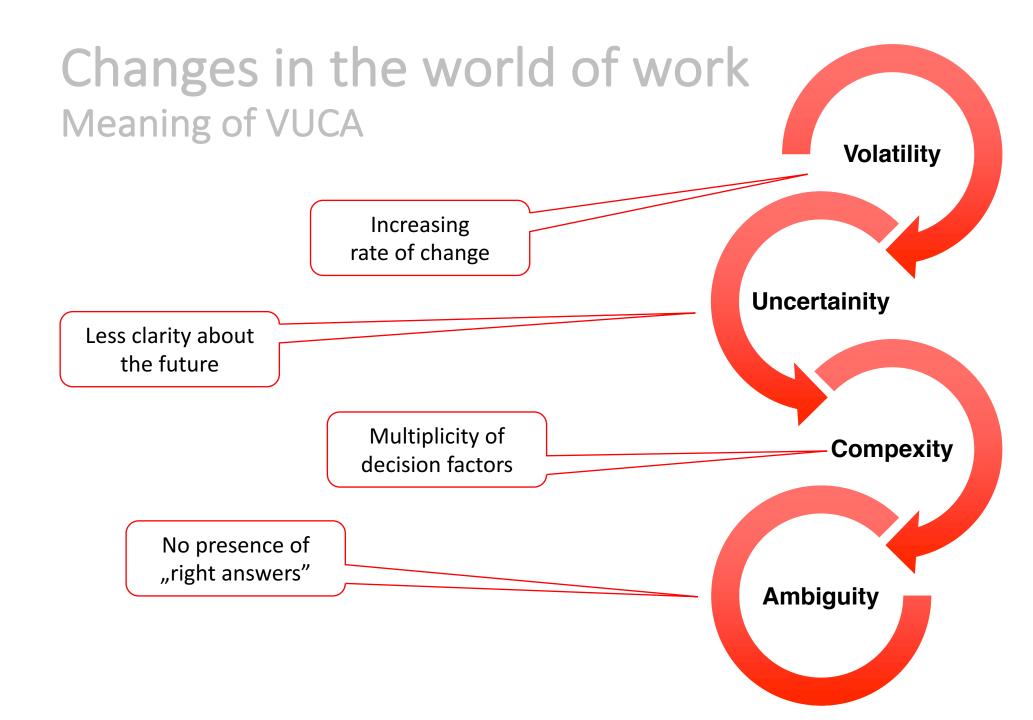
- are very similar
- well suited for project development
- LEAN and KANBAN
 - work very much with visualization
 - are origined from the (serial) production



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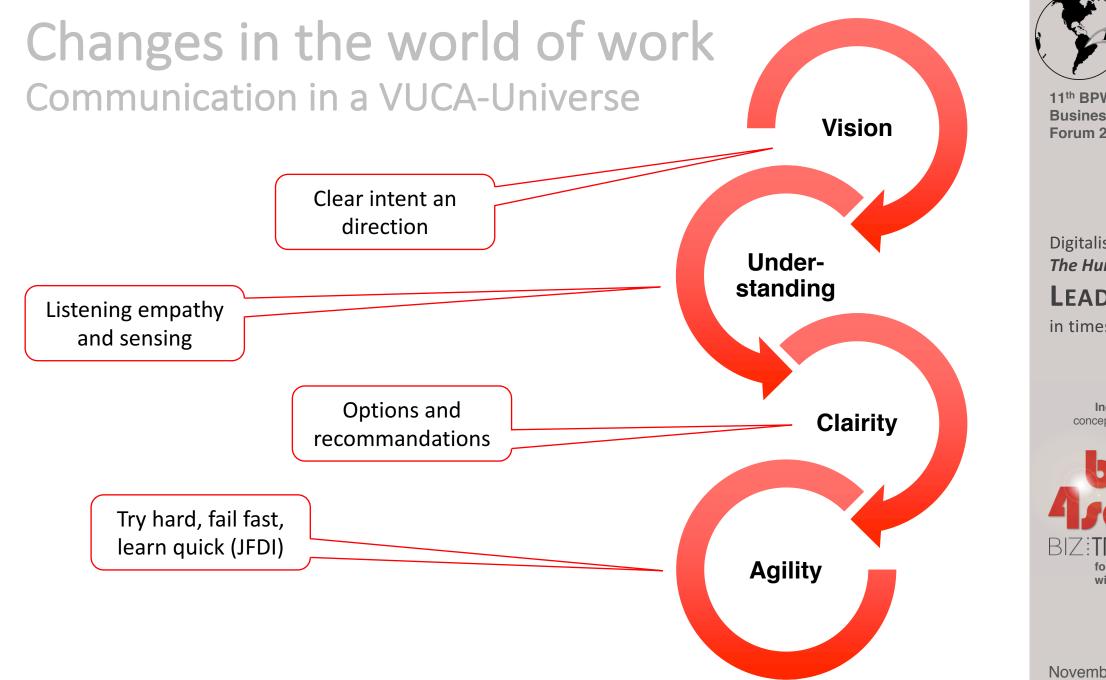


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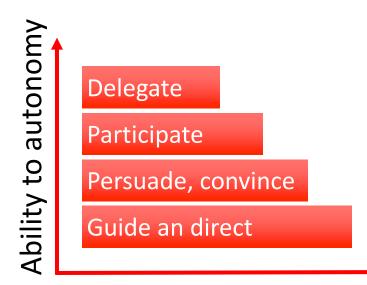
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Digital Leadership ... old wine in new bottles?

- partiziative leadership
 - depends on



Maturity of the employees Maturity of the team members

- "old" management styles
 - monitoring
 - coordinating
 - delegating
 - conducting
 - directing

. . .

motivating



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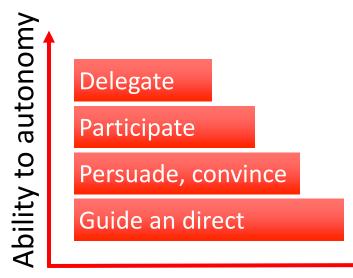
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Digital Leadership ... old wine in new bottles?

- partiziative leadership
 - depends on



Maturity of the employees Maturity of the team members possible "new" management style

- "everyone" knows
 - about the financial impact of one's own actions on the company's success



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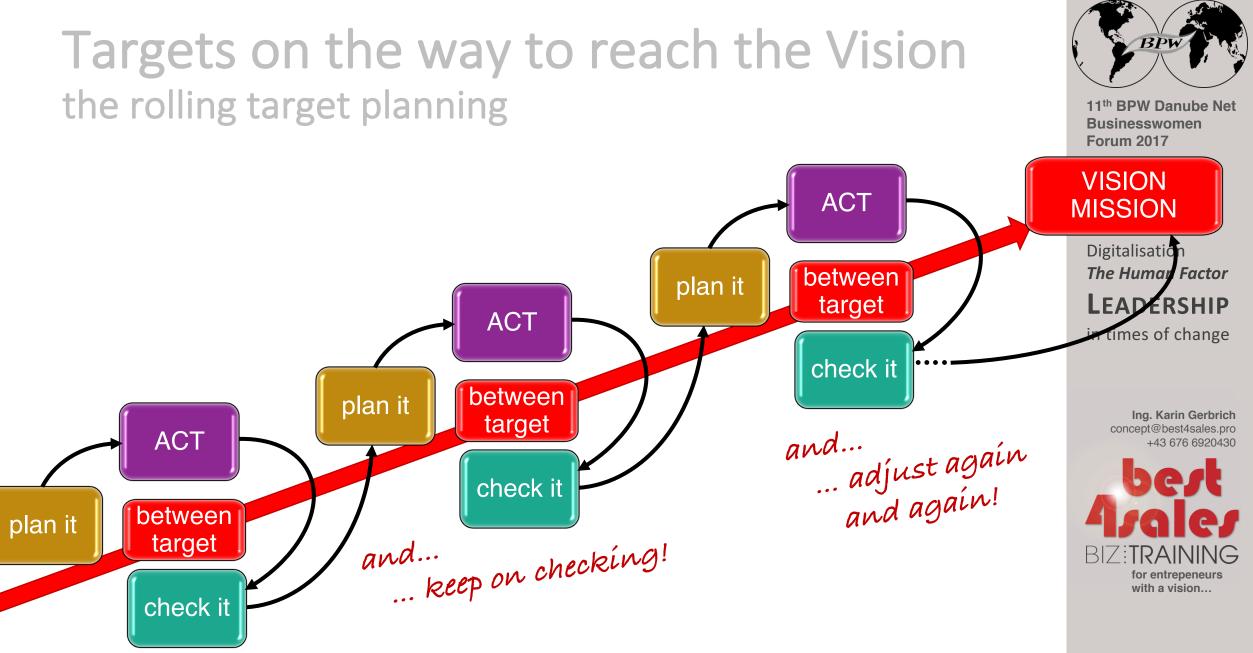




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Quotes from two really great ones:



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... which questions do you have?

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