

Excellence in Management Education

Prof. Dr. Utz Schäffer ICV Work Group Controlling Competence | May 2021

Controller Competencies of the Future





# Which competences will I need?

# Which competencies does the controller of the future need? The WHU Delphi Study has identified six competency areas



# **Finance & Controlling Expertise**

Expertise in company's finance & controlling processes Expertise in finance & controlling related concepts and frameworks Knowledge of financial metrics Knowledge of non-financial metrics Expertise in financial accounting

# **Technology & Analytics Expertise**

Expertise in IT systems and data architecture Expertise in data sourcing and data preparation Expertise in data visualization Expertise in business intelligence tools (reporting, analytics, and planning tools) Expertise in statistical model building Expertise in statistical model interpretation Expertise in programming Knowledge of digital technologies and trends Expertise in data protection and data security

Source: Schäffer/Brückner (2019)

# Management Expertise

Expertise in project management Expertise in change management Expertise in agile techniques

### **Business Acumen**

- Knowledge of company's business model, value drivers, and industry
- Knowledge of success factors of traditional business models
- Knowledge of success factors of digital business models
- Strategic thinking

# Communication & Collaboration Skills

Presentation and storytelling skills Collaboration and discussion skills Negotiation skills Leadership and motivation skills Coaching and mentoring skills Assertiveness

# **Personal Competencies**

Analytical thinking Problem solving orientation Critical thinking and reflection Personal integrity and backbone Ambiguity tolerance and openness Execution skills Perseverance and grit New tasks require new competencies. However, most of the future competencies identified in the WHU Delphi Study are not entirely new

Knowledge of non-financial metrics

Expertise in business intelligence tools

Expertise in data visualization

Expertise in IT systems and data architecture

Expertise in data sourcing and data preparation



## Required competencies today

Expertise in company's finance & controlling processes Knowledge of financial metrics Expertise in financial accounting Presentation and storytelling skills Negotiation skills Personal integrity and backbone Perseverance and grit

(reporting, analytics, and planning tools)
Expertise in project management
Expertise in change management
Knowledge of company's business model, value drivers, and industry
Knowledge of success factors of traditional business models
Collaboration and discussion skills
Leadership and motivation skills
Coaching and mentoring skills
Assertiveness
Analytical thinking
Problem solving orientation
Critical thinking and reflection
Execution skills
Strategic thinking
Ambiguity tolerance and openness

### Change in level or type of requirement

Expertise in finance & controlling related concepts and frameworks

New requirements

Expertise in statistical model building Expertise in statistical model interpretation Expertise in programming Knowledge of digital technologies and trends Expertise in data protection and security Expertise in agile techniques Knowledge of success factors of digital business models

Source: Schäffer et al. (2019)

# The WHU panelists consider themselves highly competent in some, but by far not all controller competencies



# **Finance & Controlling Expertise**

- Expertise in company's finance & controlling processes Knowledge of financial metrics Expertise in finance & controlling related concepts and frameworks Expertise in financial accounting
- Knowledge of non-financial metrics

# **Technology & Analytics Expertise**

Expertise in data visualization Expertise in data preparation Expertise in business intelligence tools (reporting, analytics, and planning tools) Expertise in IT systems Knowledge of digital technologies and trends Expertise in data protection & data security Expertise in data architecture Expertise in statistical model interpretation Expertise in statistical model building Expertise in programming

Source: WHU Controller Panel (2019)

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# Management Expertise

Expertise in project management Expertise in change management Expertise in agile techniques



# **Business Acumen**

Knowledge of company's business model, value drivers, and industry Knowledge of success factors of

- traditional business models
- Strategic thinking
- Knowledge of success factors of digital business models

# Communication & Collaboration Skills

Collaboration skills Discussion skills Presentation and storytelling skills Coaching and mentoring skills Assertiveness Leadership and motivation skills Negotiation skills

# **Personal Competencies**

Analytical thinking Problem solving orientation Personal integrity and backbone Critical thinking and reflection Perseverance and grit Execution skills Ambiguity tolerance and openness

\*consider themselves "highly competent" (values 6 and 7)

Role-specific competency gaps need to be addressed: Results of the participants of the ICV Working Group Digital Controlling Competence



### **Communication &** Finance & Controlling Expertise (Avg. 4.3) Management Expertise (Avg. 5.0) Collaboration Skills (Avg. 5.3) Expertise in finance & controlling related concepts Expertise in project management and frameworks Expertise in change management Collaboration skills Expertise in company's finance & controlling processes Expertise in agile techniques Discussion skills Knowledge of financial metrics Presentation and storytelling skills Knowledge of non-financial metrics Coaching and mentoring skills Expertise in financial accounting Leadership and motivation skills Negotiation skills ≤ 66.6% ≤ 33.3% > 66.6% Assertiveness Technology & Analytics Expertise (Avg. 4.2) Expertise in data architecture of respondents\* of respondents\* Expertise in data preparation Personal Competencies (Avg. 5.7) Expertise in IT systems Problem solving orientation Expertise in data visualization Ambiguity tolerance and openness Expertise in business intelligence tools (reporting, analytics, and planning tools) Analytical thinking **Business Acumen (Avg. 4.6)** Knowledge of digital technologies and trends Execution skills Strategic thinking Expertise in data protection Critical thinking and reflection Knowledge of company's business Expertise in data security Personal integrity and backbone model, value drivers, and industry Expertise in data sourcing Perseverance and grit Knowledge of success factors of Expertise in statistical model interpretation traditional business models Expertise in statistical model building Knowledge of success factors of Expertise in programming digital business models

Source: ICV Facharbeitskreis Digital Controlling Competence (2021); n = 7

\*consider themselves "highly competent" (values 6 and 7)

Are we asking too much? Is the controller of the future required to be a jack of all trades, master of none (or to put it in German, an "egg-laying, milk-bearing wooly sow")?

Source: Marketing campaign by KSP Krieg Schlupp Partner for Volkswagen (2016)



The scorekeeper is dead: role making is key!



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# The WHU Delphi Study identified a total of nine potential future controller roles



Source: adapted from Schäffer/Brückner (2019)

# Which roles are enacted by controllers today? Results from the WHU Campus for Controlling





# The scorekeeper is dead! Long live its heirs!





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# To make the new controller roles work, role-specific competency profiles are needed

Roles Competencies	Score- keepei	Data Engineer	Guardian	Functional Lead	Decision Scientist	Business Partner	Change Agent	Roles Competencies	Score- keeper	Service Expert	Data Engineer	Functional Lead	Decision Scientist	Business Partner	Change Agent
Finance & Controlling Expertise								Business Acumen							
Expertise in company's finance & controlling processes								Knowledge of company's business model, value drivers, and industry							
Expertise in finance & controlling related concepts and frameworks								Knowledge of success factors of traditional business models							
Knowledge of financial metrics								Knowledge of success factors of digital business models							
Knowledge of non-financial metrics								Strategic thinking							
Expertise in financial accounting								Communication & Collaboration Skill	ls						
Management Expertise								Presentation and storytelling skills							
Expertise in project management								Collaboration and discussion skills							
Expertise in change management								Negotiation skills							
Expertise in agile techniques								Leadership and motivation skills							
Technology & Analytics Expertise								Coaching und mentoring skills							
Expertise in IT systems and data architecture								Assertiveness							
Expertise in data sourcing and data preparation								Personal Competencies							
Expertise in data visualization								Analytical thinking							
Expertise in business intelligence tools								Problem solving orientation							
Expertise in statistical model building								Critical thinking and reflection							
Expertise in statistical model interpretation								Personal integrity and backbone							
Expertise in programming								Ambiguity tolerance and openness							
Knowledge of digital technologies and trends								Execution skills							
Expertise in data protection and data security								Perseverance and grit							

Required competency level (median): Not at all Basic Intermediate Profound

Source: Schäffer/Brückner (2019)

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# The four Controller roles in BASF



# Use Case: Robert Bosch has identified five roles for the controller of the future



### Fact Sheet - Business Partner Fact Sheet - Business Analyst Consultant of the management and key interface to business Process-oriented expert in data analyses, reporting and IT-systems Role Description Major Tasks **Role Description** Major Tasks Analyzes, interprets and summarizes cross-functional information Financial Planning and Analysis (FP&A) Tasks: Efficiently carries out routine tasks of standard reporting (data collection, Financial Planning and Analysis (FP&A) Tasks: Planning of Steering P&L and relevant KPI's data validation, plausibility check, report generation) Is able to communicate appropriately relevant information to management Detailed planning in IT-systems, e.g. cost center planning, PPC Develop scenarios calculation and transfer price calculation Key user of financial IT-systems Monitors financial target achievement, risks and opportunities Identify risks and opportunities. Generation of actual data Applies strong analytical skills to evaluate financial data Develops proactively suggestions for countermeasures to achieve targets · Evaluation of deviations vs. target · Responsibility for data quality (consistency and completeness) Translates multi-functional information to insights Provides trustfully decision relevant information/recommendation to Initiate measures to close potential gaps Plausibility check of reports management including evaluation of different scenarios Conducts ad hoc requests in cooperation with Business Partner Evaluate effectiveness of me Identification and correction of errors Supports development of new business models Cross-functional story-telling for Bu: Fact Sheet - Data Scientist of responsibility) Coordination and execution of standard reporting processes Supports Finance Transformation and Digital Transformation Ensure on time delivery of data and reports · Performance Management lind. Ide Specialist using scientific methods to support big data analyses Collection, processing and consolidation of data and reports for stakeholders Handling of ad hoc requests incl. pr Competence Profile (minimum requirement) ent) Standard RB-Reporting Consulting of management and oth Role Description Major Tasks Organizational-specific Reporting 5 : Champion Champion Financial objectivity as basis for der Builds and maintains statistical and machine learning models Data science tasks are mainly project-driven Special reports to external authorities 4 • specialis opecialist. Evaluation of business cases (e.g. i Collects and analyses data with cutting-edge methods to gain new insights Interpretation of data in business context and presentation of conclusions Key user of financial IT-systems, e.g. managing of interfaces, initiating of 3 + Advance Advanced Support development of new busine (e.g. AI, Predictive analytics, Data & Process Mining) hange requests, recommendation of report structure / data availability Identification of use cases for data science z • pasic Initiation and result interpretation of Supports decision process by recognition of data patterns and trends Desis Run use cases 1 : not familie Contribution to strategic planning (E Collaborates closely with Business Partner and Management os familia Develop data science tools Collect, check and clean input data Ensure relevance, completeness and consistency of data Apply statistical models on input data Program and test data models / tools Fact Sheet - Subject Matter Expert · Develop recurri Fact Sheet - Governor Competence Profile (minimum requirement) Specialist with a deep understanding of a particular t Integration of data scie 5 :: Champion handover & change m Officer for controlling regulations and standards 4 - opecialis Role Description Major Tasks Residence Accesses Role Description Major Tasks Provides specialist advise in his/her matter of expertise (on demand) Examples for typical Subject Matter a - Advances Responsible for implementation of RB-standards in operating unit Acts as experienced authority with holistic approach Contributes his/her professional perspective to cross-functional teams Data Analyst Vanagement Expertise 2 - Depic Monitoring of compliance with regulations and standards Defines and communicates controlling policies and guidelines Shares openly knowledge with different target groups, e.g. basic training Process Delegate (BBM only teoral Constancts Definition of business standards for operating unit (e.g. Controlling Concept,



### Source: Robert Bosch (2021)

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Drives controlling process excellence

Isoleco Acuren

Reporting KPI and standard layout, Target-setting ...)

Definition of reporting time schedules in operating unit

Application owner of financial IT-systems

Definition of process standards and end-to-end processes

Continuous improvement of standards, procedures and tools





Develop talent	Learning on-the-job	Learning f	rom others	Learning off-the-job			
	<ul> <li>Project assignments</li> <li>Cross-functional job rotation</li> <li>Cross-functional ("agile") teams</li> </ul>	<ul> <li>(Reverse) m</li> <li>Work with co</li> <li>Benchmarking</li> </ul>	onsultants	<ul> <li>Trainings, conferences, seminars</li> <li>Coursera, Udacity,</li> </ul>			
Recruit talent	Recruiting from w	ithin	Recruiting from outside				
	<ul> <li>Revise job profiles/requirement</li> <li>Change recommended career profiles</li> </ul>		<ul><li>Recruit digital natives</li><li>Revise job profiles/requirements</li></ul>				

Source: Schäffer/Brückner (2019); Lombardo/Eichinger (2006)



# The scorekeeper is dead!

Therefore, controllers need to ...

- reinvent themselves and work on roles, mindset and competencies! Business acumen, personal competencies and analytics are key!
- drive change in technology, process design, organizational set up and culture!
- preserve (and strengthen) their key assets, last not least a forward-thinking, fact-based and analytical mindset and the claim as single source of truth.

Contact





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