

# M17+ has five modules and step-wise implementation

Implementation period 2017–2019; **complete application of 5–year cycle by 2020/2021**

- **MODULE 1 - Quality of Selected Results**

In 2018, **results not subject to bibliometric treatment**, evaluated by external evaluators **according to their social relevance**; limited to 10% of 2016 results; 2019 - **Excellence and/or social relevance in 2017 and 2018**; in 2020 **any top-level results, including results subject to bibliometric treatment over a 5 year period**

- **MODULE 2 - Research Performance**

The overall **research performance profile**; disciplinary and institutional **bibliometry using AIS and international comparison**; 2019 bibliometry will be **cumulative (2017 + 2018)**; **large consortium papers separated out**; **international cooperation** will be monitored and the **comparison will be with the EU15**

- **MODULE 3 - Social Relevance**

**Economic or social impact of research**, applied research grants; transfer of results into practice, cooperation with the applications sphere, technology transfer

- **MODULE 4 - Viability**

**Institutional research environment** - i.e. research management, HR, career in research, PhD, instrument infrastructures and sharing, mobility of PhD students and academics, successful engagement of academics in an international research environment, best research practice

- **MODULE 5 – Ambitions and Strategy**

**Research strategy, mission and vision**, national and international research context, research strategy implementation tools, placement/transfer strategy in university rankings or other external evaluations, effort/tools to increase international reputation

National level  
Central panels

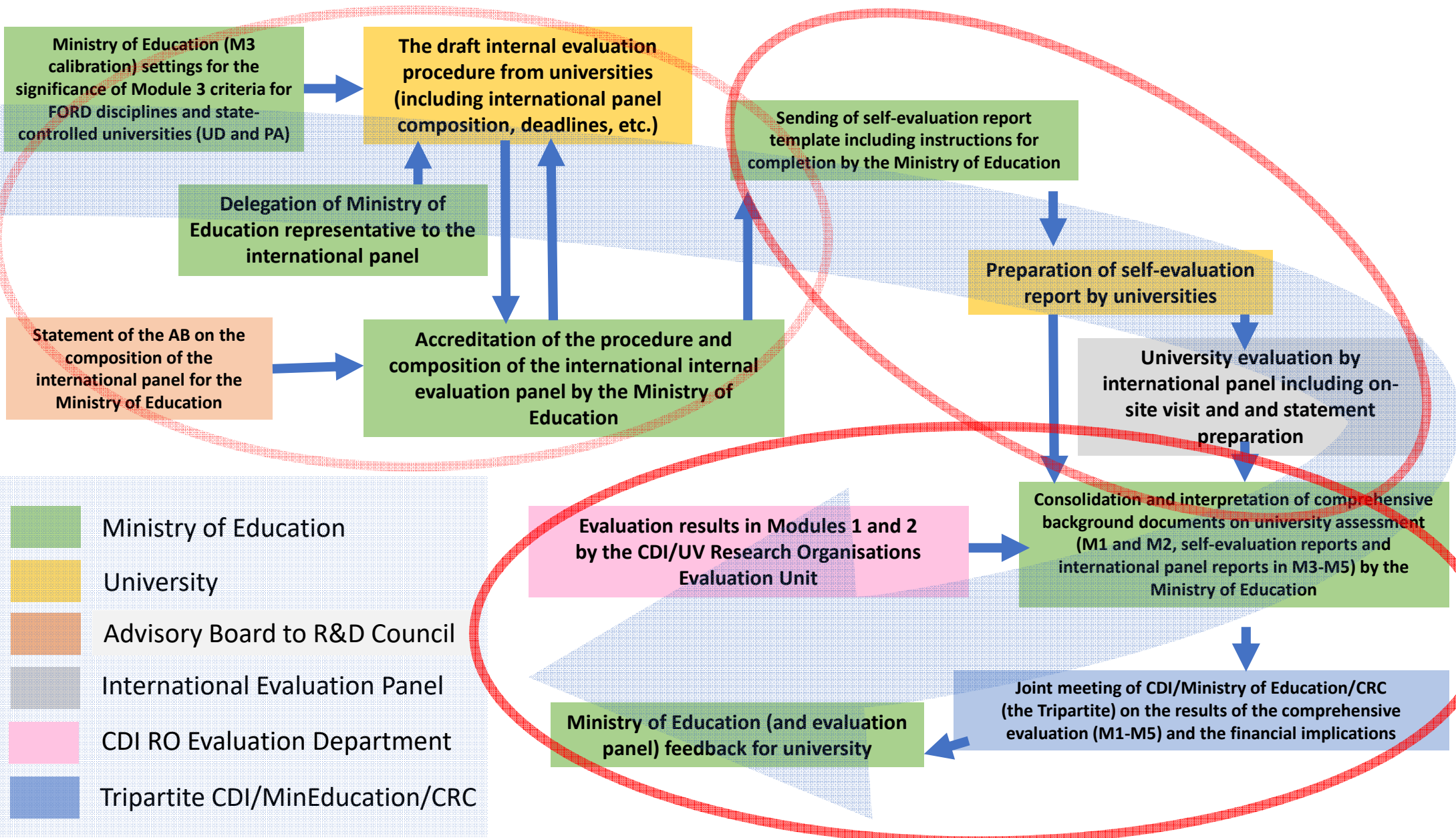
Providers/ROs

**Qualitative assessment based on self-evaluation report and on-site visit**

# Evaluation exercise at universities

*- principles, opportunities, risks*





## **MODULE 3 SOCIAL RELEVANCE**

### **SOCIAL CONTRIBUTION OF FACULTY UNDER EVALUATION**

- 3.1. Own evaluation of the social contribution of research in the fields developed at the faculty under evaluation and the faculty as a whole

### **APPLIED RESEARCH PROJECTS**

- 3.2. Commentary on the list of applied research grants (Annex Table 1)
- 3.3. Commentary on the list of contract research projects (Annex Table 2)
- 3.4. Commentary on non-public research revenue (excluding contract research) obtained through research activities (e.g. licences sold; Annex Table 3)

### **APPLIED RESEARCH RESULTS**

- 3.5. Commentary on significant applied research results with an existing or prospective economic impact on society (Annex Table 4)
- 3.6. Commentary on significant applied research results with an impact on society other than economic (Annex Table 5)

### **COOPERATION WITH THE NON-ACADEMIC ENVIRONMENT AND TECHNOLOGY TRANSFER**

- 3.7. Overview of the most important academic research interactions with the non-university application/business community (max. 10)
- 3.8. System and support for technology transfer and intellectual property protection
- 3.9. Strategy for establishing and supporting spin-off companies (can relate to the whole university, but with an emphasis on faculty specifics)

### **RECOGNITION BY THE RESEARCH COMMUNITY**

- 3.10. Overview of the most important individual research awards
- 3.11. Recognition by the international community in the field of research (elected memberships in professional societies, major editorships, invited lectures at foreign institutions, etc.; max 20)

### **RESEARCH POPULARISATION**

- 3.12. Overview of major activities in research popularisation and communications with the public (max. 10)

**12 parameters +  
tables**

## **MODULE 4 VIABILITY**

### **RESEARCH ORGANIZATION, MANAGEMENT AND SUPPORT**

- 4.1. Research Organization and Management
- 4.2. Research support system and stimulus measures for top-level science
- 4.3. Institutional rules for the use of institutional support (Long-term research organisation development plan)
- 4.4. Strategy for the establishment, funding and long-term development of research centres
- 4.5. Training system for intellectual property protection and technology transfer

### **PhD TRAINING**

- 4.6. Doctoral study organisation
- 4.7. Internationalisation of Doctoral Studies
- 4.8. Follow-up careers for doctoral graduates (support, examples)
- 4.9. Funding rules for doctoral students, including foreign students

### **INTERNATIONAL AND NATIONAL RESEARCH CO-OPERATION AND MOBILITY**

- 4.10. Significant research collaboration at national level
- 4.11. Significant research collaboration at international level
- 4.12. Mobility of academic and research staff
- 4.13. Internationalisation of the internal environment

### **RESEARCH HUMAN RESOURCES AND CAREER PROMOTION**

- 4.14. Career prospects system for academic and research staff
- 4.15. System of evaluation for academic and research staff and for filling key research positions
- 4.16. System for recruiting external research and academic staff

4.17. Human resources structure commentary (Annex Table 6)

4.18. Gender issues

### **RESEARCH FINANCIAL RESOURCES\***

- 4.19. Commentary on the structure of research financial resources (Table 7 + additional tables)
- 4.20. Support for the acquisition of foreign research projects

### **INTERNAL RESEARCH ASSESSMENT AND START-UP STRATEGY**

- 4.21. Internal evaluation system for research units (groups, teams, departments, institutes)
- 4.22. Conditions for the creation of new teams and the introduction of new research topics (so-called start-up strategy)
- 4.23. External research advisory bodies

### **RESEARCH INFRASTRUCTURE**

- 4.24. System for acquisition and renewal of research instruments and equipment (Annex Table X)
- 4.25. System for sharing instruments and equipment for research

### **RESEARCH INTEGRITY (CODE OF CONDUCT FOR RESEARCH INTEGRITY, OPEN ACCESS, DATA MANAGEMENT, ETHICAL ISSUES ... )**

- 4.26. Internal rules and measures for maintaining best research practice (e.g. Code of Conduct for Research Integrity, Research Ethics)
- 4.27. Open Access Strategy for Research (Open Access)
- 4.28. Research Data Management Strategy

*\*Except applied research projects that are covered by Module 3*

**28 parameters + tables**

## **MODULE 5 STRATEGY AND CONCEPT**

### **MISSION AND VISION IN RESEARCH**

- 5.1. Mission and vision of the institution being evaluated in research

### **RESEARCH OBJECTIVES AND STRATEGIES**

- 5.2. Research objectives and strategies for the period up the next evaluation

### **NATIONAL AND INTERNATIONAL RESEARCH CONTEXT**

- 5.3. Link to higher national and multi-national strategic objectives and research actions
- 5.4. Strategies and measures for placement or shift in international university rankings (including field rankings) and other significant external assessments of research-related institutions

### **RESEARCH STRATEGY IMPLEMENTATION TOOLS**

- 5.5. Institutional tools for research strategy implementation with an emphasis on promoting high-quality research and an innovative environment

### **SWOT ANALYSIS**

**5 parameters  
+ SWOT analysis**

### Relevance of the criteria (M3)

5*	Highly relevant
4*	Significantly relevant
3*	Relevant
2*	Somehow relevant
1*	Marginally relevant

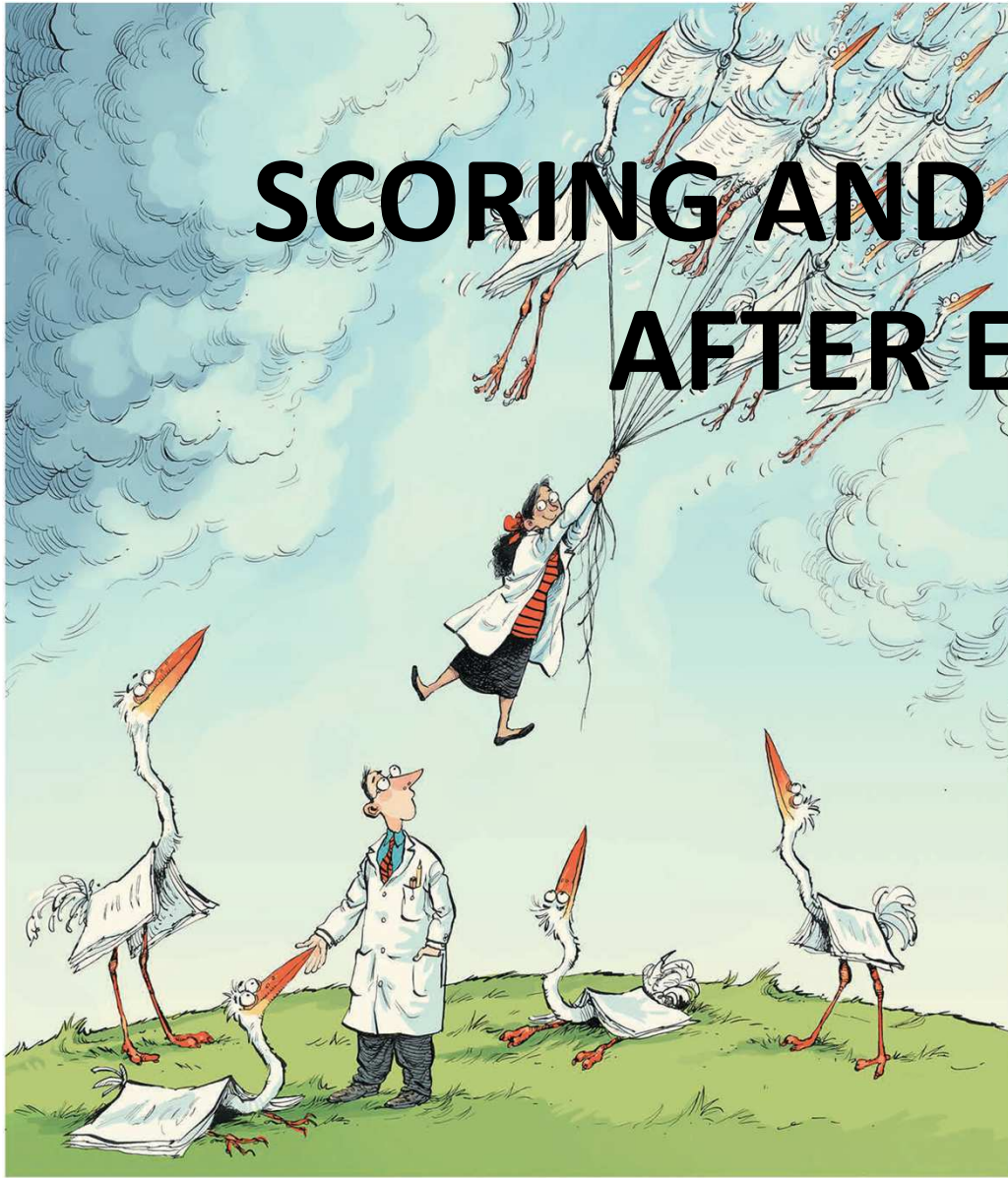
### Assessment scale (all three modules)

5 points	Excellent
4 points	Very good
3 points	Good
2 points	Average
1 point	Below average
0	Unsatisfactory

**5 degrees of relevance (for M3 only) and 5 quality grades (for all three modules) will make it simple and aggregable as „quantitative assessment“ (on the top of qualitative assessment)**

PARAMETRY/KRITÉRIA		KATEGORIE FORD					
		Natural Science	Engineering and Technology	Medical and Health Sciences	Agricultural and Veterinary Sciences	Social Sciences	Humanities and the Arts
3.2.	<u>Projekty aplikovaného výzkumu (Tabulka a komentář)</u>	4*	5*	3*	5*	4*	3*
3.3.	<u>Projekty smluvního výzkumu (Tabulka a komentář)</u>	4*	5*	4*	5*	3*	1*
3.4.	<u>Výnosy z neveřejných zdrojů (Tabulka a komentář)</u>	5*	5*	4*	5*	2*	1*
3.5.	<u>Výsledky aplikovaného výzkumu s ekonomickým dopadem na společnost (Tabulka a komentář)</u>	4*	5*	3*	5*	2*	1*
3.6.	<u>Výsledky aplikovaného výzkumu s jiným než ekonomickým dopadem na společnost (Tabulka a komentář)</u>	3*	3*	5*	3*	5*	5*
3.7.	<u>Interakce akademického výzkumu s aplikační/firemní sférou</u>	4*	5*	5*	5*	4*	4*
3.8.	<u>Systém a podpora transferu technologií a ochrany duševního vlastnictví</u>	5*	5*	4*	5*	1*	1*
3.9.	<u>Strategie zakládání a podpora spin-off firem (lze vztáhnout k celé VŠ s fakultními specifiky)</u>	4*	5*	4*	4*	1*	1*
3.10.	<u>Významná individuální ocenění za výzkum</u>	5*	5*	5*	5*	5*	5*
3.11.	<u>Uznání mezinárodní komunitou v oblasti výzkumu (volená členství v odborných společnostech, editorství, zvané přednášky atd.)</u>	5*	5*	5*	5*	5*	5*
3.12.	<u>Významné aktivity v oblasti popularizace výzkumu a komunikace s veřejností</u>	5*	5*	4*	5*	5*	5*
<b>CELKOVÁ INDIKATIVNÍ RELEVANCE</b>		<b>48*</b>	<b>53*</b>	<b>46*</b>	<b>52*</b>	<b>37*</b>	<b>32*</b>

# SCORING AND RECOMMENDATIONS AFTER EACH MODULE





# Opportunities

- Valuable feedback and recommendations
- High quality international board
- New useful indicators of research progress
- Increased knowledge of the leadership about their research fields
- Growing national and international reputation
- More money and more stable funding

# Risks

- Useless or not positive feedback
- Increased administration
- Too demanding and expensive process for small money
- Criticisms from researchers
- Decreased reputation
- Less or not growing money