

## SUPPLEMENT 2 TO THE SELF-EVALUATION REPORT

### INTRODUCTION

Evaluation of research organisations is comprised of five modules. Module 1 (Quality of selected results) and Module 2 (Efficiency of research) are carried out by the Research, Development and Innovation Council (“the R&D&I Council”) on a central level.

In Module 1, more than 5000 results selected by the Universities, were assessed. The reviewers evaluated the results based on two criteria: “social relevance” (55 % of the selected results) and “contribution to knowledge”. Fields of Research and Development 5 – Social Sciences and 6 – Humanities and the Arts (approx. 50% of the selected results) were extensively represented. In Module 2, the results registered in 2016-2017 were included in the analysis.

As it is established in the Methodology for Evaluating Research Organisations and Research, Development and Innovation Purpose-tied Aid Programmes, R&D&I Council proposed aggregated evaluation of research in the Universities segment, based upon Module 1 and Module 2. In the implementation period, this evaluation is tentative. Not all Universities were included. The inclusion criteria were: the number of assessed selected results in Module 1 and the significance of the bibliometric analysis in Module 2. The full evaluation (including Universities, for which R&D&I council did not provide proposed aggregated evaluation) will be completed after assessing Modules 3-5 at a provider level.

This supplement provides context for the evaluation in Modules 3-5. It informs the International Evaluation Panel about the quality of the selected results and the research performance at a selected University. However, the International Evaluation Panel does not assess the University based on its results in Module 1 and Module 2.

### EVALUATION OF THE UNIVERSITY IN M1 AND M2

#### Aggregated Evaluation of the University in M1 and M2

The University is to attach aggregated evaluation of research in M1 and M2 provided by the R&D&I Council. The University, for which R&D&I council did not provide proposed aggregated evaluation, states this information.

#### Field ranking

Some of the fields of the **natural sciences** are internationally comparable, some fall below international standards. The fields that are internationally comparable are mathematics and information technology. The fields that fall below international standards are physics and chemistry. Without including major collaborations, physics would be substantially below average on the national level, which need not be an issue: the field partially focuses on major international studies, and major collaborations are a significant and prestigious area of research. There is a shortage of D1 results in mathematics; the field is otherwise internationally comparable. Information technology reaches an excellent international standard. Chemistry does not quite attain an internationally comparable standard.

In terms of **technical fields**, ČVUT can be evaluated, in general, as excellent. It is the best of all the technical universities, although its quality is not balanced. It produces many excellent results (world-class in some fields), but also many poor results. There are many

selected results and they are usually of high-quality; nevertheless, some faculties generate practically no results and/or results of poor quality. The standard of civil engineering, electrical engineering, information engineering, environmental engineering and other engineering is excellent; the standard of materials engineering is very good; and the standard of mechanical engineering and medical engineering is somewhat poorer.

ČVUT is not significantly represented by either the **social sciences** or other field groups.

### **Aggregation**

**Overall, most fields at ČVUT are ranked as excellent. Despite minor fluctuations, ČVUT can be ranked in research as an excellent university.**

(Original text. CTU = ČVUT)

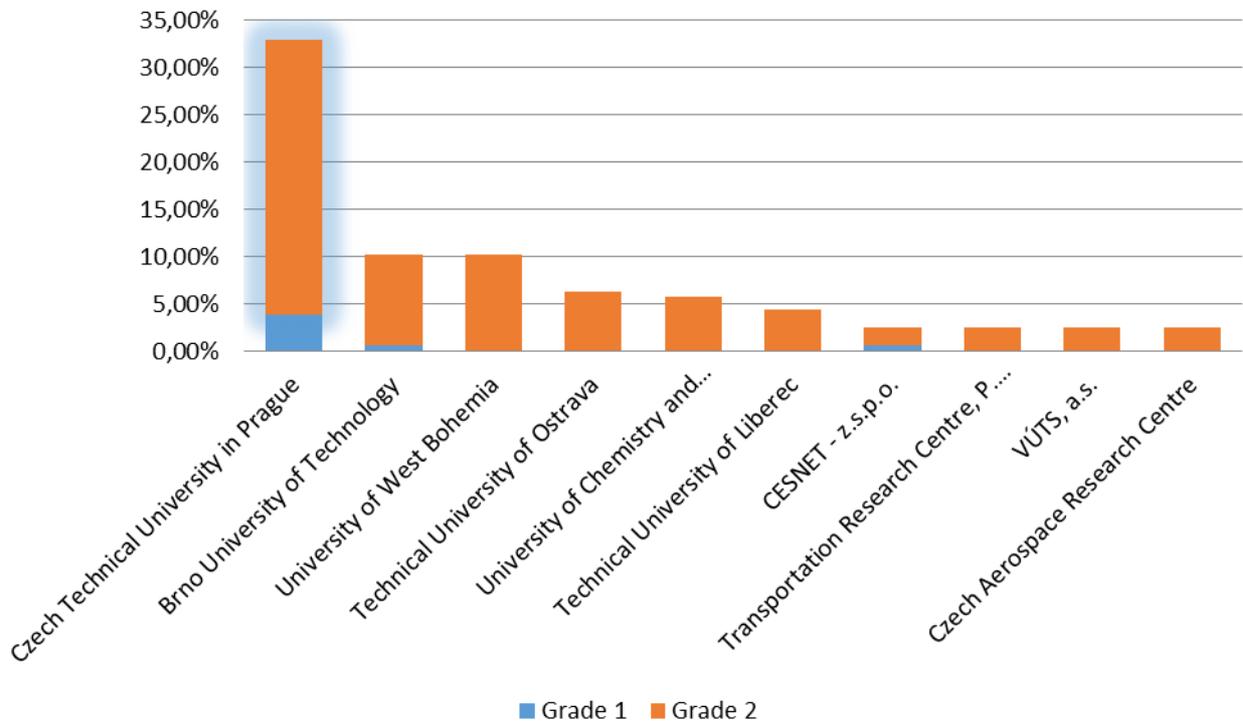
### **Additional Information**

The University is to provide additional information of its own choice from the evaluation in M1 and M2, provided by the R&D&I Council.

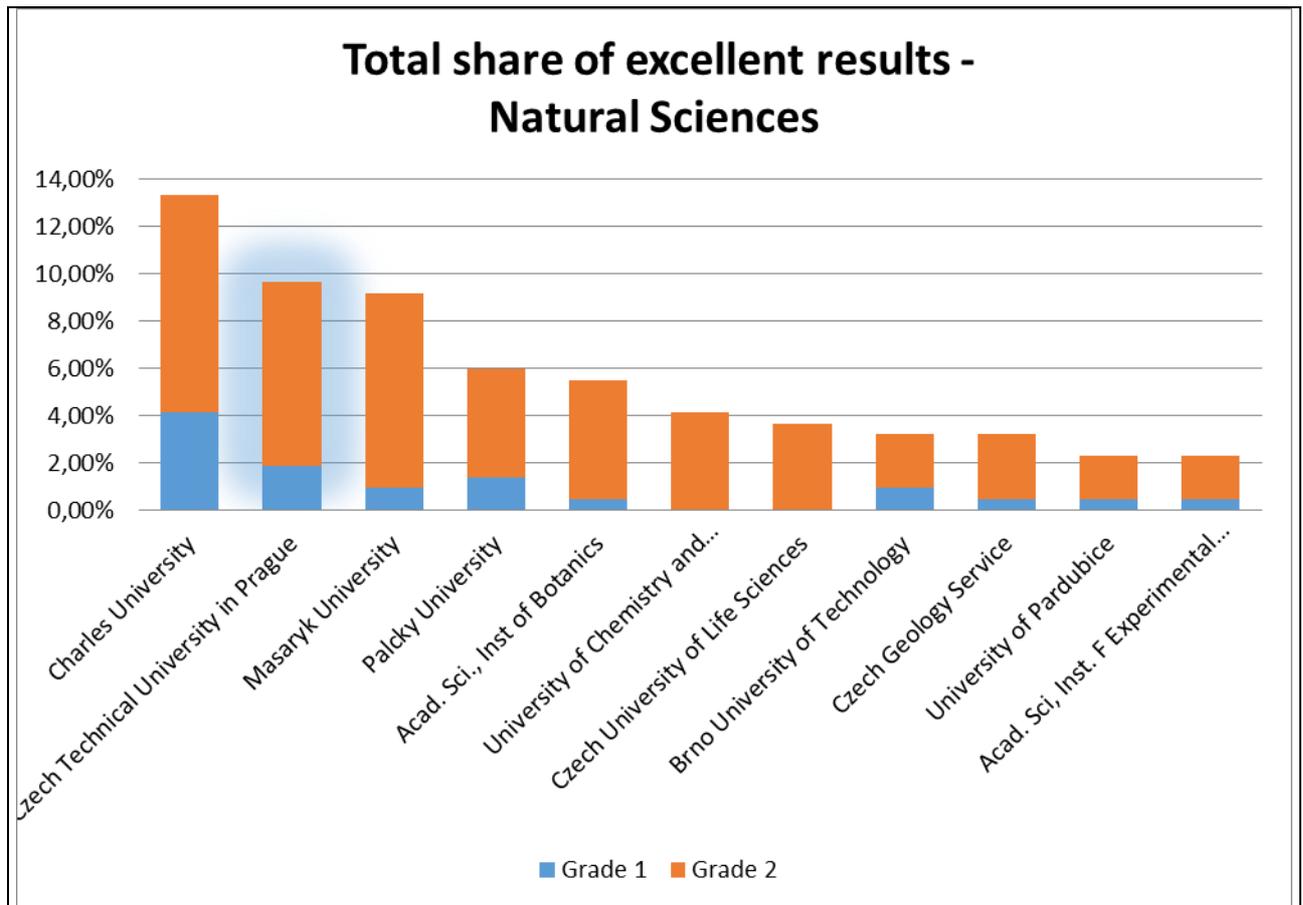
Materials are available at <https://hodnoceni18.rvvi.cz/www/nebiblio> (Module 1) and <https://hodnoceni18.rvvi.cz/www/biblio-vo> (Module 2).

**CTU has two major fields of expertise: Engineering and Technology, and Natural Sciences. According to the national evaluation. the results in Module 1 show that we are clearly the number one technical university in the Czech Republic – we have produced over one third of all results evaluated with grade 1 or 2 (Grade 1 is the highest level):**

## Total share of excellent results - Engineering and Technology



**We are doing pretty well in our second discipline – natural sciences. Charles University (Univerzita Karlova) is approximately three times larger than CTU, and covers research fields that are practically outside the scope of CTU (e.g. biology), yet the national share of excellent results of CTU in Natural Sciences is close to three quarters of Charles University's share.**



#### STATEMENT OF THE UNIVERSITY

##### Statement of the University to the evaluation by R&D&I Council

The University is to provide its statement to the evaluation in M1 and M2. The University may provide additional information relevant to the evaluation. Alternatively, the University may explain its objection to the evaluation by the R&D&I Council.

We are grateful for the appreciation of our results in FORD 2.

We understand that due to the methodology used, the evaluation of our results in some of our strongest research fields in FORD 1, e.g. particle physics, is suppressed. We consider our contributions to major international collaborations such as CERN or BNL to be influential and important; we are determined to continue research in these directions anyway.

We know our weak points, and we will struggle hard to improve.