

CONTENT

Foreword	1
Content	2
INTRODUCTION	6
1. THE SYSTEM OF RESEARCH, DEVELOPMENT AND INNOVATIONS IN 2014	8
1.1 National policies for research, development and innovations in the CR	10
1.1.1 National Research, Development and Innovation Policy of the CR for 2009-2015	11
1.1.2 Update of the National Research, Development and Innovation Policy of the CR in 2009 to 2015 with the outlook to 2020	12
1.2 Priorities of oriented research, development and innovations	15
1.2.1 Basic long-term research directions	15
1.2.2 Priorities of applied research, development and innovations in the CR in 2009-2011	15
1.2.3 National priorities of oriented research, experimental development and innovations	16
1.3 Legislation and legal regulations	18
1.4 Research, development and innovation budget	22
1.4.1 Procedure of budget proposal preparation	22
1.4.2 Structure and division of R&D&I budget	23
1.4.3 Assessment of research organizations	25
1.5 R&D&I assessment	27
1.5.1 International Research, Development and Innovation Audit in the CR	27
1.5.2 Assessment of research organization results	32
1.6 Research, experimental development and innovation information system	35
1.7 Analyses of research, experimental development and innovation status in the CR	36
2. OUTLOOK FOR THE FUTURE	37
2.1 Horizon 2020	38
2.1.1 Main H2020 priorities	38
2.1.2 H2020 budget	38
2.1.3 H2020 priorities	39
2.1.4 Beyond priorities - paid from the H2020 budget	43
2.1.5 Proposal of rules for participation in H2020	43
2.1.6 Programme committee	45
3. RESEARCH AND DEVELOPMENT PUBLIC FUNDING	46
3.1 The total and public R&D spending in selected developed countries in 2011	47
3.2 Total CR state budget spending for research, development and innovation	48
3.3 Institutional and targeted spending of CR state budget for research, development and innovations	50
3.4 Total expenditure for research, development and innovations by selected providers	51

3.5	Institutional support of research and development by selected providers	52
3.6	Targeted support of research, development and innovation by selected providers	53
3.7	Total state aid to research, development and innovation in individual regions	54
4.	R&D&I PROVIDERS AND PROGRAMMES IN THE CR	55
4.1	The Czech Science Foundation (GA CR)	55
4.1.1	GA CR professional commissions and panels	56
4.1.2	Types of grant projects	57
4.1.3	Tenders	63
4.1.4	Contacts and additional information	63
4.2	Technology Agency of the CR (TA ČCR)	64
4.2.1	Applied research and experimental development programme ALFA 2011-2016 (TA)	64
4.2.2	Programme of R&D&I tenders for the needs of state administration BETA 2012-2016 (TB)	65
4.2.3	Programme for applied social science R&D aid OMEGA 2012-2017 (TD)	68
4.2.4	Competence center programme 2012-2019 (TE)	71
4.2.5	Applied research, experimental development and innovation programme GAMA 2014-2019 (TG)	72
4.2.6	Programme for cooperation aid in applied research and experimental development through common projects of technology and innovation agencies DELTA 2014-2019 (TF)	74
4.2.7	Applied research and experimental development aid programme EPSILON 2015-2025 (TH)	76
4.2.8	Tenders	78
4.2.9	Contacts and additional information	78
4.3	Ministry of Culture (MC)	79
4.3.1	Programme for applied research and national and cultural identity development - NAKI 2011-2017 (DF)	79
4.3.2	Tenders	79
4.3.3	Contacts and additional information	79
4.4	Research programmes of the Ministry of Defence (MD)	80
4.4.1	Programme for defence applied research, experimental development and innovations 2011-2017 (OF)	80
4.4.2	Development of the Armed Forces of the Czech Republic (OW)	80
4.4.3	Tenders	83
4.4.4	Contacts and additional information	84
4.5	Research programmes of the Ministry of Industry and Trade (MIT)	85
4.5.1	Programme „TIP“ 2009-2017 (FR)	85
4.5.2	Contacts and additional information	85
4.6	Research programmes of the Ministry of Education, Youth and Sports (MEYS)	86
4.6.1	National sustainability programme I 2013-2020 (LO)	86
4.6.2	National sustainability programme II 2013-2020 (LQ)	88
4.6.3	Information - the base of research 2013-2017 (LR)	90

4.6.4	Tenders	92
4.6.5	Contacts and additional information	92
4.7	Research programmes of the Ministry of the Interior (MI)	93
4.7.1	Security research for state needs in 2010 to 2015 (VF)	93
4.7.2	Security research programme of the Czech Republic 2010-2015 (VG)	94
4.7.3	Security research programme of the Czech Republic 2015-2020 (VI)	94
4.7.4	Tenders	96
4.7.5	Contacts and additional information	96
4.8	Research programmes of the Ministry of Health (MH)	97
4.8.1	Departmental research and development programme of the Ministry of Health III 2010-2015 (NT)	97
4.8.2	Medical applied research and development aid programme for 2015-2022 (NV)	97
4.8.3	Tenders	99
4.8.4	Contacts and additional information	99
4.9	Research projects of the Ministry of Agriculture (MA)	100
4.9.1	Complex sustainable systems in agricultural sector 2012-2018 „KUS“ (QJ)	100
4.10	Summary of calls in current aid programmes	104
5.	RESEARCH AND DEVELOPMENT IN THE CZECH REPUBLIC IN EUROPEAN UNION CONTEXT	105
5.1	Research and development support in the Czech Republic by the EU structural funds in 2007-2013	105
5.1.1	OP Research and development for innovations - MEYS (R&D&I OP)	105
5.1.2	Annual Report OP R&DfI 2012	112
5.1.3	OP Education for Competitiveness - MEYS (OP EC)	113
5.1.4	Annual Report OP EC 2012	114
5.1.5	OP Entrepreneurship and Innovation - OPPI	115
5.1.6	Annual Report OP PI 2012	117
5.2	Research and development support in the CR by EU structural funds in 2014-2020	120
5.2.1	Main identified problems and development needs	120
5.2.2	OP Entrepreneurship and Innovation for Competitiveness	124
5.2.3	OP Research, development and education	125
6.	INTERNATIONAL COOPERATION OF THE CR IN THE AREA OF RESEARCH AND DEVELOPMENT	126
6.1	European Research and Innovation Area	127
6.2	The seventh EU framework research and development programme and EURATOM	128
6.2.1	ERA-NET PLUS	130
6.2.2	EURATOM	130
6.2.3	NICER III, CZERA	131
6.3	European Research Council - ERC	135
6.4	Programme ERC CZ (LL)	136

6.5	Programme RETURN (LK)	138
6.6	Liaison Information Office of the CR in Brussels - CZELO	140
6.7	Large infrastructures for research, development and innovation	141
6.8	Research Fund for Coal and Steel - RFCS	142
6.9	Competitiveness and innovation framework programme (CIP)	143
6.10	Programme for the Competitiveness of enterprises, especially small and medium-sized (COSME)	143
6.11	Cooperation with the Russian Federation and Ukraine within the EU - STCU, ISTC	144
6.12	Financial mechanism EEA/NORSKA - Grants EEA, Norway grants 09-2014	145
6.13	Multilateral intergovernmental cooperation	146
6.13.1	COST programme (LD)	146
6.13.2	Programme EUREKA CZ (LF)	148
6.13.3	Programme EUROSTARS - EUROSTARS2	151
6.13.4	NATO scientific programmes - civil research	152
6.13.5	European Space Agency (ESA)	153
6.13.6	The European Science Foundation (ESF)	154
6.13.7	EMBC, EMBO, EMBL and project ELIXIR	155
6.13.8	Organization for Economic Co-operation and Development (OECD)	156
6.13.9	European Southern Observatory (ESO)	157
6.13.10	European Organization for Nuclear Research (CERN) and Joint Institute for Nuclear Research (SÚJV) Dubna	158
6.13.11	Other entities in international cooperation	158
6.13.12	European Metrology Research Programme (EMRP)	159
6.13.13	Joint Technology Initiatives ARTEMIS and ENIAC	160
6.14	Bilateral cooperation	161
6.14.1	International cooperation in R&D for the support of researcher MOBILITY	161
6.14.2	International cooperation in research and development „KONTAKT II“ (LH)	163
6.14.3	Programme EUPRO II (LE)	167
6.14.4	Programme INGO II (LG)	169
6.14.5	The programme of international cooperation between the CR and the State of Israel in R&D „GESHER/MOST“ (LJ)	170
6.14.6	Antarctic cooperation	172
6.15	Institutional support	173
6.16	Contacts	175
CONCLUSION		178
LIST OF ABBREVIATIONS		179