

EUSALP & ALPGOV

“State of the art” of funding instruments at regional level

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80 million people, 7 countries, 48 regions,
mountains and plains addressing together
common challenges and opportunities



Introduction

The present document refers to the third report of the activity 1 (research, mapping, comparative analysis and graphic design of the full framework of financial instruments in the area of research and innovation for the Alpine Macroregion), provided by the technical assistance service for the strategic analysis and project proposal within the AlpGov project.

The subject of this report is a collection of the financial instruments related to R&I available at regional level elaborated by EUSALP AG1 EU-Program Staff, in order to list and describe them with synthetic fiche, integrated within the Platform of Knowledge.

Subsequent release will show the final comparative and GAP analysis.

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1 Methodological report

As defined by EUROSTAT and OECD¹ it is important to define “**Innovation**” and the concept of “**Research and Development – R&D**”.

Innovation is the use of new ideas, products or methods where they have not been used before.

Research and development, abbreviated as **R&D**, refers to creative work undertaken on a systematic basis in order to increase the stock of knowledge (including knowledge of man, culture and society), and the use of this knowledge to devise new applications.

1.1 Data source

The first step in the creation of the third report led to a brief comparison concerning the level of Innovation among EUSALP Regions.

In the first instance, the official sites of the Regions were used (links are embedded in each Region’s section), in order to have a complete picture of the financial instruments of each EUSALP Region, where Regions invest differently parts of their budget in funds dedicated to research and innovation. The sites referring to research and innovation agencies or foundations that directly manage the funds provided by the Regions, were used because every single Region has different ways of managing and communicating financing instruments.

Report’s second section, based on official regional data, describes the programmes and resources available for R&I within EUSALP Regions.

We adopted these sources because they are accredited and constantly updated.

http://ec.europa.eu/growth/industry/innovation/facts-figures/regional_en

<http://ec.europa.eu/eurostat/web/science-technology-innovation/overview>

¹<https://www.oecd.org/site/innovationstrategy/defininginnovation.htm>

2 Regional Innovation Scoreboard comparison among the EUSALP regions

The (RIS)² is a branch of the European Innovation Scoreboard.

The RIS uses the same methodology used in the EIS, but to measure regional innovation performance. Data on innovation at regional level are less detailed than data developed at national level. The Regional Innovation Scoreboard focuses more on the performance of small and medium-sized enterprises (SMEs).

Depending on differences in regional data availability, the RIS covers France, Austria in Nuts Level 1, whilst Germany, Italy and Switzerland in Nuts Level 2. The Regional Innovation Scoreboard classifies each region into four different performance groups (average performance scores, calculated by the Summary Innovation Index). A detailed breakdown of these performance groups is achieved by splitting each group into a top one-third (assigned with a '+'), middle one-third, and bottom one-third (assigned with a '-') regions:

1. *Innovation Leaders* with innovation performance more than 20% above the EU average (includes 53 regions, for EUSALP area are 15);
2. *Strong Innovators* with a performance between 90% and 120% of the EU average. (includes 60 regions, for EUSALP area are 10);
3. *Moderate Innovators* with performance between 50% and 90% of the EU average (includes 85 regions, for EUSALP area are 8).
4. *Modest Innovators* with performance level below 50% of the EU average (includes 22 regions, none for EUSALP area).

The overall most innovative region in Europe is Zürich in Switzerland. Performance has increased for all regions in **Austria**, Belgium, **France**, the Netherlands, Norway, Slovakia, **Switzerland**, and the United Kingdom, and for more than 50% of regions in Greece, **Italy**, Poland, and Sweden¹.

² [Regional Innovation Scoreboard 2017](#).

The table below, Regional Innovation Scoreboard, reports in detail, score and performance group for each AlpGov country, at NUTS2 or NUTS3 level.

Table 1 – Regional Innovation Scoreboard

| NUTS Code | NUTS 2 or NUTS 3 | Score relative to EU 2017 | Performance group |
|-----------|---|---------------------------|-------------------|
| ITC2 | Valle d'Aosta/Vallée d'Aoste (ITC2) | 59 | Moderate |
| ITH1 | Provincia Autonoma Bolzano/Bozen (ITH1) | 69.4 | Moderate |
| ITC3 | Liguria (ITC3) | 69.6 | Moderate |
| ITH2 | Provincia Autonoma Trento (ITH2) | 78.4 | Moderate+ |
| ITH3 | Veneto (ITH3) | 79.4 | Moderate+ |
| ITC4 | Lombardia (ITC4) | 79.6 | Moderate+ |
| ITC1 | Piemonte (ITC1) | 79.8 | Moderate+ |
| ITH4 | Friuli-Venezia Giulia (ITH4) | 87.8 | Moderate+ |
| DE22 | Niederbayern (DE22) | 91 | Strong- |
| FR8 | Méditerranée (FR8) | 103 | Strong |
| DE23 | Oberpfalz (DE23) | 106.8 | Strong |
| FR4 | Est (FR4) | 108 | Strong |
| DE24 | Oberfranken (DE24) | 111.2 | Strong+ |
| FR6 | Sud-Ouest (FR6) | 111.3 | Strong+ |
| DE27 | Schwaben (DE27) | 111.7 | Strong+ |
| AT3 | Westösterreich (AT3) | 115.5 | Strong+ |
| AT1 | Ostösterreich (AT1) | 119.3 | Strong+ |
| AT2 | Südösterreich (AT2) | 119.4 | Strong+ |
| DE26 | Unterfranken (DE26) | 121.2 | Leader- |
| FR7 | Centre-Est (FR7) | 122.7 | Leader- |
| DE25 | Mittelfranken (DE25) | 129.1 | Leader |
| DE13 | Freiburg (DE13) | 130.1 | Leader |
| DE12 | Karlsruhe (DE12) | 138.8 | Leader |
| DE11 | Stuttgart (DE11) | 139.6 | Leader+ |
| DE14 | Tübingen (DE14) | 141.9 | Leader+ |
| CH02 | Espace Mittelland (CH02) | 143 | Leader+ |
| DE21 | Oberbayern (DE21) | 143.2 | Leader+ |
| CH01 | Région lémanique (CH01) | 147.9 | Leader+ |
| CH05 | Ostschweiz (CH05) | 149.6 | Leader+ |
| CH07 | Ticino (CH07) | 152.5 | Leader+ |
| CH06 | Zentralschweiz | 155 | Leader+ |
| CH03 | Nordwestschweiz (CH03) | 166.4 | Leader+ |
| CH04 | Zürich (CH04) | 178.3 | Leader+ |

The Gross domestic expenditure on R&D (GERD)³ is the most important indicator in the field of research statistics. The GERD is of major political importance, mainly due to the European objective of spending 3% of the total annual economic production in R&D by 2020. The graphs below show the level of expenditure in Eusalp Regions, Eu-28 and Euro-zone, data are referred to 2015. Switzerland GERD is not available for this comparison.

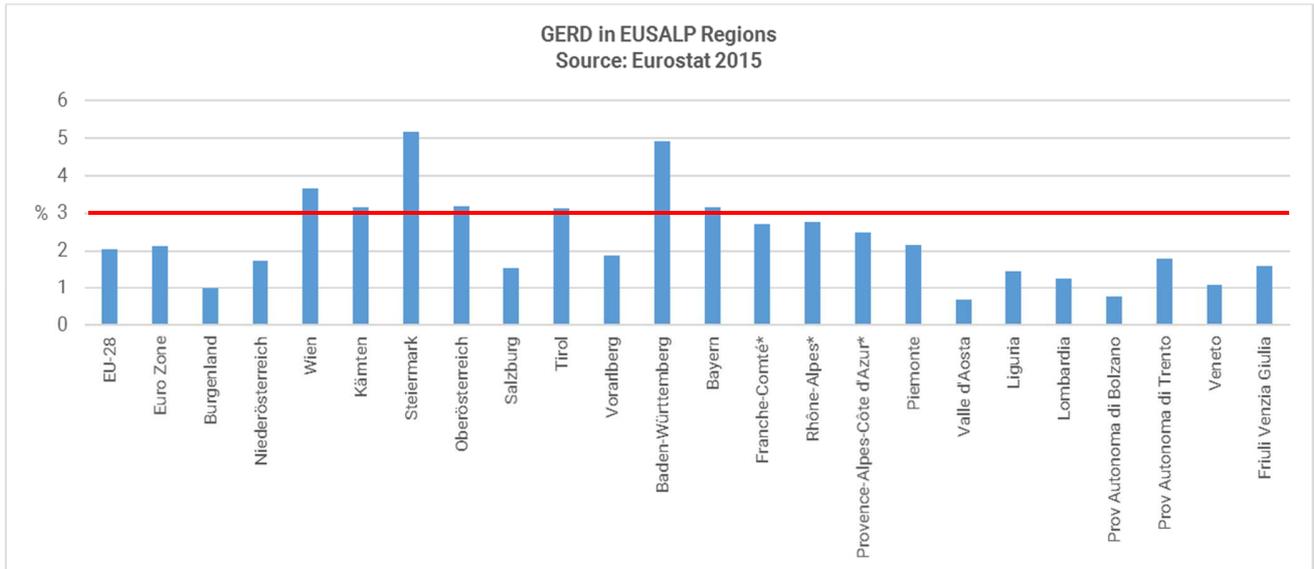


Figure 1 - 2015 of R&D expenditure as % of GDP. The red line refers to European strategy 2020 target set to 3%. (* 2013 data instead 2015).

³includes expenditure on research and development by business enterprises, higher education institutions, as well as government and private non-profit organisations. (Source: Eurostat)

2.1 Focus on Regions

This second section based on official regional data, focuses on each regional instruments related to R&I. In order to have an easy overview the regions are divided in their own country.

Italian and French regions are mainly based on national and European strategies and instruments. Germany, due to its structuring in Länder, has greater autonomy in the provision and structuring of regional funds for R&I. Austria presents a national logic for some regions or sectors (i.e. National RDP 2014-2020), while some regions have own funds or instruments. Finally, Switzerland presents the cantonal laws related to R&I with own funds, although some “over-cantonal” strategies and funds management are shared. As a final point, in some regions or over-regional areas, private foundations support R&I projects and initiatives in different fields of application.

The main regional solutions to support R&I are: agreement Public-Private; voucher to support innovative projects; start-up grants; tax reduction for companies that invest in R&I projects; and in some cases prizes or grants for researchers. To close, Rural Development Programmes for each regions (excluding Austria) are inserted in this report.

2.1.1 Italy

Italy has a National Smart Specialisation Strategy and 21 Regional Specialisation Strategies.

Regional and national S3 represent the strategic framework for the design and implementation of the interventions of research, technological development and innovation policies. Each region has its own laws related to R&I, which provide European funds (ERDF) and regulate the delivery through specific calls, and has its Rural Development Programme for the period 2014 -2020. Regions can activate some facilitation tools to support innovation in the private sector or calls to support research in specific thematic areas and in some regions there are no profit foundations that supports R&I projects in different thematic areas.

The table below shows the R&D total expenditure in 2015 for Italian Eusalp region:

Table 2 – Lombardy R&D total expenditure – 2015. (Source: Eurostat)

| Region | R&D Total Expenditure - 2015 (in 1000 €) |
|--------------------------------------|---|
| Valle d'Aosta/Vallée d'Aoste | € 30,132.00 |
| Autonomous Province of Bolzano/Bozen | € 161,073.00 |
| Autonomous Province of Trento | € 334,770.00 |
| Friuli-Venezia Giulia | € 566,857.00 |
| Liguria | € 692,285.00 |
| Veneto | € 1,675,600.00 |
| Piedmont | € 2,749,644.00 |
| Lombardy | € 4,544,102.00 |

Lombardy

Lombardy's regulations referred to R&I are:

“Lombardy is research and innovation” L.R. n.29/2016

The Regional regulation n. [29/2016](#) "Lombardy is research and innovation" establishes a 3-year strategic program⁴ that provides a forecasting framework for the actions to be carried out, the resources to be implemented and the expected results to be achieved. It focuses on the matching between enterprises and Universities in order to stop the brain drain.

The Research and Innovation Agreements represent an innovative and simplified form of support for relevant and complex R&I projects characterized by a solid partnership between small, medium and large enterprises and research centres and / or universities (Public-Private partnership).

“Lombardy Enterprise: for the freedom of enterprise, work and competitiveness” L.R. n. 11/2014

The regional regulation n. [11/2014](#) "Lombardy Enterprise: for the freedom of enterprise, work and competitiveness" established the Competitiveness Agreements, a negotiation and innovative instrument. The first period of implementation of the Law recorded: 32 Approved Agreements; € 104 million of activated investments, 10,500 protected jobs and 350 new hires.

The regional law 11/2014 provides facilities and investments for Lombard companies, with particular attention to the areas of innovation, research, intangible infrastructures and sustainable development. The Region offers contributions, vouchers, grants and any other form of financial intervention, depending on the size of the company (with particular attention to the micro-enterprises). The Region supports through incentives based on revolving funds the internationalization of companies based in Lombardy and the establishment of foreign companies.

⁴[3-year strategic programme information](#)

Rural Development Programme 2014-2020

Lombardy's Rural Development Programme ([RDP](#)) outlines regional priorities for using the € 1,143 billion of public money that is available for the 7-year period 2014-2020 (€ 493 million from the EU budget and €650 million of national co-funding). Furthermore, the RDP considers knowledge transfer and innovation in agriculture, forestry and rural areas as a cross-cutting priority. Lombardy's RDP expects to support 75 cooperation projects, 25 of which under the European Innovation Partnership (EIP) will strengthen the link between research and agriculture, food and forestry sectors.

The four biggest RDP measures in budgetary terms (total public funding) are:

- a) € 409 million allocated to measure 4 (Investments in physical assets)
- b) € 240.3 million allocated to measure 10 (Agro-environment-climate)
- c) € 103.3 million allocated to measure 8 (Forestry)
- d) € 78 million allocated to measure 13 (Areas facing natural constraints)

Cariplo Foundation

The mission of the [Fondazione Cariplo](#) is to provide non-refundable contributions to the Third Sector organizations for the realization of social utility projects. The Foundation supports innovative projects aimed at enhancing human capital and implemented through partnerships and networks. Contributions are mainly assigned through following instruments: calls, territorial projects, sponsorships, particular participation and institutional donations. The Cariplo Foundation operates in Lombardy and the provinces of Novara and Verbano-Cusio-Ossola. Furthermore Cariplo Foundation supports initiatives especially in developing countries.

In 27 years of activity, Cariplo Foundation has delivered: € 500 million for over 2000 projects in different fields from Biomedicine to Agrifood.

The Fondazione Cariplo allocates around **€ 190 million** per year in grants for non-profit organizations.

Friuli Venezia Giulia

Friuli Venezia Giulia's regulation referred to R&I is:

“General regulation on innovation, scientific research and technological development” L.R. 26/2005

The regional regulation n. [26/2005](#) has the following purposes:

- Ensure the quality of social and economic development of regional communities;
- Characterize the regional territory as a high level of innovation.

Region supports enterprises, research and innovation centres, and the welfare and public administration system. it aims at developing and promoting research, disseminating innovation and transferring knowledge and skills.

“Reduction / exemption: companies involved in R&D” L.R. n. 3/2015 art. 19

Friuli Venezia Giulia Region has activated a [tax reduction](#) (-0,40%) for companies involved in R&D actions.

Rural Development Programme 2014-2020

Friuli Venezia Giulia's Rural Development Programme ([RDP](#)) outlines regional priorities for using the **€ 348,5 millions** of public money that is available for the 7-year period 2014-2020 (€ 126,1 million from the EU budget € 166,2 million of national co-funding and 56,2 million of additional regional resources).

Furthermore, the RDP considers knowledge transfer and innovation in agriculture, forestry and rural areas as a cross-cutting priority. Friuli Venezia Giulia's RDP expects to support 29 cooperation projects, 9 of which under the European Innovation Partnership (EIP) will strengthen the link between research and agriculture, food and forestry sectors.

The four biggest RDP measures in budgetary terms (total public funding) are:

- € 97.1 million allocated to measure 4 (Investments in physical assets)
- € 40 million allocated to measure 13 (Areas facing natural constraints)
- € 29 million allocated to measure 10 (Agro-environment-climate)
- € 24 million allocated to measure 8 (Forestry).

Beneficiaries are farmers, social cooperative, general public starting an agriculture business

Co-Funding max: 100%

Piedmont

Piedmont's regulation referred to R&I is:

“Regional system for research and innovation” L.R. n. 4/2006

The regional regulation n. [4/2006](#) defines the main objectives and the main regional actors involved in the R&I system.

“Interventions for the development of productive activities” L.R. n.34/2004

The regional regulation n. [34/2004](#) defines the interventions for the development of production activities. The Region pursues the following objectives:

- Enterprises innovation (technological, productive, commercial, etc.);
- Basic and industrial research,
- Development and technology transfer;

Piedmont Region supports SMEs and enterprises through:

- Capital grants;
- Soft loans through a revolving fund;
- Tax refunds;
- Promotion and financing of projects;
- Other forms of intervention identified and defined by the Regional Council.

Rural Development Programme 2014-2020

Piedmont's Rural Development Programme ([RDP](#)) outlines priorities for using the **€ 1.08 billion** of public money that is available for the 7-year period 2014-2020 (€ 465 million from the EU budget and € 613 million of national co-funding).

10% of the RDP budget is allocated under the priority knowledge transfer and innovation in agriculture, forestry and rural areas. Actions should be aimed at promoting networks and partnerships between companies and actors

in the system of knowledge, strengthening of advice and information for business networks, qualifying professionals, and it is estimated to fund 130 cooperation projects (including projects under the European Innovation Partnership).

The four largest RDP measures in budgetary terms (total public funding) are:

- a) € 284 million euro allocated to measure 4 (Investments in physical assets)
- b) € 263 million allocated to measure 10 (Agri-environment-climate)
- c) € 87 million allocated to measure 7 (Basic services and village renewal in rural areas)
- d) € 65 million allocated to measure 19 (Local development strategies).

Veneto

Veneto's regulation referred to R&I is:

“Regulation of industrial districts, regional innovative networks and business combinations” L.R. n.13/2014

The regional regulation n. [13/2014](#) defines the main objectives and the main regional actors involved in the R&I system.

The Region finances intervention projects presented by industrial districts, innovative regional networks and business combinations concerning:

- Research and innovation;
- Internationalization;
- Infrastructures;
- Sustainable development and environmental protection;
- Defense of employment and the development of new employment;
- Development of innovative entrepreneurship and new or renewed entrepreneurship;
- Participation in projects promoted by the European Union, including in the field of "clusters";
- Any further initiative aimed at the competitive strengthening of companies.

Veneto Minibond

[Veneto Sviluppo](#) and the Cooperative Credit Banks / Rural and Artisan Banks belonging to the Veneto Federation of the Cooperative Credit Banks, have activated "Veneto Minibond".

[Veneto Minibond](#) is an innovative financial instrument aimed at regional companies that intend to carry out growth projects and new investments, or finance the circulating through the issuance of debt securities. The instrument is aimed at corporations with headquarters or operations in Veneto region, with an annual turnover of between € 2.5 million and € 100 million.

The subscription of debt financial instruments can reach up to a maximum of 50% of the total issuance, for an amount between **€ 250,000.00 and € 2,5 million**

Rural Development Programme 2014-2020

Veneto's Rural Development Programme (RDP) outlines priorities for using the **€ 1,194 million** of public money that is available for the 7-year period 2014-2020 (nearly € 511 million from the EU budget, plus € 673 million of national co-funding, plus € 10 million of additional funding top-ups).

The RDP considers innovation as a cross-cutting priority. Continuous training aimed at farmers, in particular on subjects referred to climate change, sustainable agriculture and food quality, aims to increase skills. Innovation is also facilitated by cooperation and the transfer of information and knowledge between the agri-food sector, researchers and other stakeholders. Approximately 120 different cooperation projects are expected to be funded (including the development of pilot projects and the creation of clusters and networks) and will support 26 operational groups within the European innovation partnership.

The four biggest RDP measures in budgetary terms (total public funding) are:

- a) € 446 million allocated to measure 4 (Investments in physical assets)
- b) € 166 million allocated to measure 10 (Agri-environment-climate)
- c) € 131 million allocated to measure 6 (Farm and business development)
- d) € 120 million allocated to measure 13 (Payments to area facing natural or other specific constraints)

Liguria

The Liguria's regulation referred to R&I is:

"Promotion, development, enhancement of R&I and university and higher education activities " L.R. n. 2/2007

The regional regulation n. [2/2007](#) "Promotion, development, enhancement of research, innovation and university and higher education activities":

- Identifies and strengthens the subjects that contribute to the development of the regional system of research, innovation and high education;
- Defines the appropriate functions and procedures to guarantee the full participation of the productive, scientific, technological and social forces in defining the research intervention policy and ensuring the effectiveness and efficiency of the implemented actions;
- Promotes the link between research and production systems;
- Facilitates the transfer of technology to SMES and their associations, in order to enhance workers' knowledge.

Rural Development Programme 2014-2020

Liguria's Rural Development Programme ([RDP](#)) outlines Liguria priorities for using more than **€ 309 million** of public money that is available for the 7-year period 2014-2020 (about € 133 million from the EU budget and € 176 million of national co-funding).

More than 6% of the RDP budget is allocated to the priority knowledge transfer and innovation in agriculture, forestry and rural areas. Considering innovation aspect: 88 projects will be supported to strengthen the link between agriculture, food and forestry sectors and research, and the programme will implement the European Innovation Partnership (EIP).

The four biggest RDP measures in budgetary terms (total public funding) are:

- a) € 84 million allocated to measure 4 (Investments in physical assets)
- b) € 48 million allocated to measure 8 (Investments in forest area development and improvement of the viability of forests)
- c) € 30 million allocated to measure 13 (Payments to areas facing natural or other constraints)
- d) € 27 million allocated to measure 6 (Farm / business development)

Autonomous Province of Bolzano

The regulation of the Autonomous Province of Bolzano referred to R&I is:

“Research and innovation” L.P. n.14/2005

The provincial regulation n. [14/2006](#) supports basic and applied research. The provincial regulation defines the main objectives and the main provincial actors involved in the R&I system.

Programma pluriennale della ricerca stabilito con LP 14/2006⁵ - Regolamento di esecuzione concernente la promozione della ricerca scientifica

The [multiannual research program](#) envisaged by the Autonomous Province of Bolzano grants aid to small and medium-sized enterprises and to companies that develop innovative projects or feasibility studies.

Beneficiaries are SMEs, Large enterprises, consortiums, temporary association of companies, SMEs or Large enterprise in collaboration with at least one research study center, Universities, or scientific park, based in Bolzano.

Eligible actions are: Feasibility studies; R&D projects in early phase; R&D projects, process or organization innovation, industrial property rights, management systems; advisory services relating to innovation and innovation support services, cooperation projects for research and development; capitalization of new innovative companies; creation and development of innovation poles.

Feasibility studies

The expected aid (of total eligible costs) intensity is:

- for small businesses up to 65%
- for medium-sized enterprises up to 60%
- for large companies up to 50%

The eligible costs for a single feasibility study may not exceed the following amounts:

- SMEs: € 60,000.00
- Large enterprise .: 100,000.00 €

Research and development projects

The expected aid (of total eligible costs) intensity is:

- up to 100%, fundamental research
- up to 50% and for industrial research;
- up to 25% for experimental development

The total gross amount of aid paid for each project may not exceed the following amounts:

- € 20 million for fundamental research projects;
- € 10 million for industrial research projects;
- € 7.5 million for experimental development projects

⁵ [Implementation criteria L.P. 13.12.2006, n. 14 "Research and Innovation "](#)

Rural Development Programme 2014-2020

The Autonomous Province of Bolzano's Rural Development Programme ([RDP](#)) outlines Bolzano's priorities for using more than **€ 366 million** of public money available for the 7-year period 2014-2020 (over € 158 million from the EU budget and € 208 million of national co-funding).

The RDP considers innovation as a cross-cutting priority. Continuous training aimed at farmers, in particular on subjects referred to climate change, sustainable agriculture and food quality, aims to increase skills. Innovation is also facilitated by cooperation and the transfer of information and knowledge between the agri-food sector, researchers and other stakeholders. Considering innovation aspect: 6 co-operation projects should be established, including support for Operational Groups under the European Innovation Partnership.

The four biggest RDP measures in budgetary terms (total public funding) are:

- a) € 117 million allocated to measure 13 (Areas with natural and specific constraints)
- b) € 100 million allocated to measure 10 (Agro-environment-climate)
- c) € 48 million allocated to measure 4 (Investments in physical assets)
- d) € 25 million allocated to measure 6 (Farm and business development)

Autonomous Province of Trento

The regulation of the Autonomous Province of Bolzano referred to R&I is:

“Research regulation” L.P. n. 14/2005

The provincial regulation n. [14/2005](#) supports basic and applied research. The provincial regulation defines the main objectives and the main provincial actors involved in the R&I system.

Rural Development Programme 2014-2020

The Rural Development Programme ([RDP](#)) outlining Trento's priorities for using the **€ 297.5 million** of public money that is available for the 7-year period 2014-2020 (€ 127.9 million from the EU budget and € 169.6 million of national co-funding).

The RDP considers innovation as a cross-cutting priority. Continuous training aimed at farmers, in particular on subjects referred to climate change, sustainable agriculture and food quality, aims to increase skills. Innovation is also facilitated by cooperation and the transfer of information and knowledge between agri-food sector, researchers

and other stakeholders. Considering innovation aspect: **80 co-operation projects** should be established, including support for Operational Groups under the European Innovation Partnership.

The four biggest RDP measures in budgetary terms (total public funding) are:

- a) € 98.2 million allocated to measure 4 (Investments in physical assets)
- b) € 73.2 million allocated to measure 13 (Payments to areas facing natural or other constraints)
- c) € 46.9 million allocated to measure 10 (AEC)
- d) € 18 million allocated to measure 19 (Leader)

Valle d'Aosta

“Regional interventions in favour of research and development” L.R. n. 84/1993

In order to develop local production activities, the Autonomous Region of Valle d'Aosta / Vallée d'Aoste promotes interventions aimed at promoting R&D activities in new companies, production processes or services through the regional regulation n. [84/1993](#).

Applications must be submitted in response to specific calls.

Beneficiaries are:

- Industrial companies with a number of employees not less than 10; Research consortia among industrial companies; Research centres.

The contribution cannot exceed (for total eligible costs)

- 50% for industrial research activities,
- 25% for the experimental development activities.

The maximum amount of the contribution is fixed, for each year and for each project, in:

- € 500.000,00 for large enterprises;
- € 250.000,00 for medium enterprises
- € 125.000,00 for small enterprises.

The duration of the research project must be from 1 to 3 years.

Rural Development Programme 2014-2020

Valle d'Aosta's Rural Development Programme ([RDP](#)) outlines the priorities for using the **€ 137 million** of public money that is available for the 7-year period 2014-2020 (€ 59 million from the EU budget and € 78 million of national co-funding).

Knowledge transfer system (training courses, coaching, workshops, demonstration activities, information actions and farm exchanges) will be developed through specific training courses addressed to persons engaged in agricultural, food and forestry sector, land managers and other economic actors, which are SMEs operating in rural areas farmers. The main topics are farm management and competitiveness, diversification of activity, innovation, climate change and sustainable agriculture. The programme supports especially the training of young farmers.

Furthermore, **20 co-operation projects**, during 7-years period, will be supported to strengthen the link between agriculture, food and forestry sectors and research.

The four biggest RDP measures in budgetary terms (total public funding) are:

- a) € 41.4 million allocated to measure 13 (Payments to areas facing natural or other constraints)
- b) € 28 million allocated to measure 10 (AEC)
- c) € 26 million allocated to measure 4 (Investments in physical assets)
- d) € 8 million allocated to measure 14 (Animal Welfare)

Research Agreement

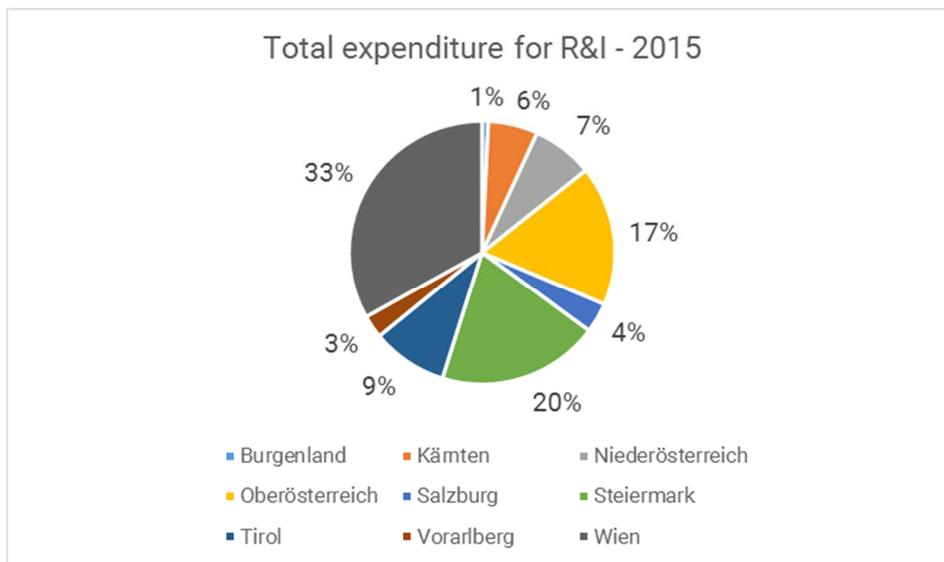
In order to promote research, innovation and technological transfer to Valle d'Aosta companies, Valle d'Aosta Region has defined agreement with:

- [Regione Piemonte](#)
- [Polo di Innovazione per la Meccatronica e i Sistemi Avanzati di Produzione \(MESAP\), attraverso il suo ente gestore Centro Servizi Industrie s.r.l.](#)
- [Associazione Cluster Innovativo BIOPMED e il suo ente operativo Bioindustry Park Silvano Fumero S.p.A.](#)
- [Environment Park S.p.A., ente gestore del Polo di innovazione ENERGY AND CLEAN TECHNOLOGIES](#)
- [Polo di Innovazione ICT, attraverso il suo ente gestore Fondazione Torino Wireless](#)
- [Université de technologie de Compiègne \(UTC\)](#)
- [Istituto Italiano di Tecnologia \(IIT\)](#)

2.1.2 Austria

[Statistik Austria](#) defines the data concerning 2015 Total Expenditure for R&I in each Austrian region as defined in the table and graph below:

| Bundesländer | R&D Total Expenditure - 2015 (in 1000 €) |
|-------------------|--|
| Burgenland | € 79,107.00 |
| Vorarlberg | € 291,344.00 |
| Salzburg | € 379,255.00 |
| Kärnten | € 623,415.00 |
| Niederösterreich | € 768,738.00 |
| Tirol | € 952,842.00 |
| Oberösterreich | € 1,778,268.00 |
| Steiermark | € 2,034,776.00 |
| Wien | € 3,422,495.00 |
| Österreich | € 10,330,240.00 |



Burgenland

Currently there is no specific regional funds for R&I. The regional policy is based on OP FESR 2014-2020 (Investments in Growth and Employment Austria).

Kärnten

With the law for “the promotion of the economy in Carinthia” (Kärntner Wirtschaftsförderungsgesetz - K-WFG, LGBl 6 | 1993, idgF), a non-profit fund was established under the name of [Kärnten Wirtschaftsförderungs Funds](#) in order to achieve the objectives of this law.

The aim of **the KWF research, development and innovation program** is to develop and strengthen Carinthia's innovation system in order to increase Carinthia's competitiveness.

Three different activities are applied:

- Individual research and development activities in companies and/or research institutions;
- Collaborative and cooperative measures that develop interregional, cross-sectoral projects (e.g. research infrastructures accessible to multiple users, educational activities, feasibility studies, skills development between companies);
- Continuous tenders to support the more interesting technological area in Carinthia.

The funding of research and development projects by the KWF, in coordination with the funding offered by the federal subsidy agencies and the EU, reduces the financial risk for a company and enables a faster and higher-quality implementation of the project. The support offered by the KWF includes advice and additional financial support. The applications can be submitted until 31st December 2020.

Niederösterreich

Forschungs-, Technologie- und Innovationsprogramm Niederösterreich

A research, technology and innovation program ([RTI programme](#)) for the Niederösterreich was developed with 450 experts in science and industry. Three area of interventions are defined in the RTI programme:

- Nature - Culture - Quality of life;
- Nutrition - Medicine – Health;
- Technology – Productivity – Prosperity.

Specific calls are activated on the indicated topics.

The aim of the Province of Lower Austria is to support all the scientific field, from education through basic research to applied research, using a variety of instruments. In this context, the term instruments covers both financing and promotion instruments as well as services.

The Province of Lower Austria offers financing instruments in the field of FTI along the entire innovation chain. In addition to grants, this offer also includes other financial instruments, such as liability, equity investments or venture capital. All of these instruments should be seen as complementary to federal and European Union programs.

Niederösterreich Wissenschaftspreis

The State of Lower Austria gives [annual prizes for scientific results](#). Scientific documents related to any topic that have been produced by researchers from Lower Austria can be presented.

In 2018 the Province of Lower Austria offers the following prizes:

- Two awards amounting to € 11,000.00 each;
- Four prizes of € 4,000.00 each.

Oberösterreich

Currently no regional funds for R&I are mapped.

Salzburg

Currently no regional funds for R&I are mapped.

Steiermark

[The Steirische Wirtschaftsförderung – SFG](#), as the only regional branch, allocates funds from the Province of Styria and from the European Regional Development Fund (ERDF).

The SFG supports the competitiveness of companies through the granting of subsidies and loans, and thus contributes to the strengthening of Styria as a commercial centre.

Subsidies and loans may be granted to companies, municipalities and other legal entities located in Styria, whose activities contribute to the achievement of the purpose of the law on economic development just as established by the Styrian Economic Promotion Act and the Styrian Business Promotion Guidelines.

The following programs are supported by the SFG:

Ideen!Reich

[Ideen!Reich](#) bridges funding gaps in the federal programs of Austrian Research Promotion Agency (FFG) and Austria Wirtschaftsservice GmbH (AWS) for Styrian SMEs. It provides up to 50% financing for companies (SMEs) with innovative ideas. There are three modules:

Ideen finden: It is intended for any type of business innovation activity including the development of new (digital) products and services. The maximum contribution is € 5,000.00.

Ideen zünden supports the following actions: Prototype, demonstration system, a beta version or a marketable product or service. The maximum contribution is € 60,000.00 and the maximum project duration 12 months.

Ideen zünden plus is similarly to the modalities of the "Beteiligungsoffensive KMU" initiative, a subordinate silent participation is available. Max. € 350,000 of accredited project costs.

Groß!TAT

[Groß!TAT](#) is a fund for innovative investments of large companies.

Future-oriented investments are supported, leading to diversification of activities on Austrian farms or allowing the creation of innovative companies in Styria.

Up to 10% investment support for companies that want to make a big impact in Styria. Only projects with a total investment volume of at least € 600,000.00 will be funded.

Tirol

Currently no regional funds for R&I are mapped.

Vorarlberg

Currently no regional funds for R&I are mapped.

Wien

WWTF

The [Vienna Science and Technology Fund](#) (Wiener Wissenschafts-, Forschungs- und Technologiefonds) promotes science and research in Vienna. The fund's funding tools and methods are designed to strengthen top research in Vienna.

The WWTF obtains its funds from the "Privatstiftung zur Verwaltung von Anteilsrechten", a private foundation in the financial sector, which was set up in order to manage equity interests.

From 2003 to 2016, 188 research projects with a duration of 2 to 4 years were funded in the four thematic programmes with a total funding volume of € 95 million. In the same period, the City of Vienna funded 26 research projects, 3 fellowships, and 12 summer schools in the social sciences and humanities programme, with a total funding volume of € 8.3 million.

The WWTF provides funding to major scientific projects in basic research that offer medium- to long-term economic or social benefits. Funding is granted towards the cost of staff, investments, networking and management. To be eligible, project applications must have a term between two and four years. Funding ranges from a minimum of € 200,000.00 up to a maximum of €1 million. (Source: [WWTF website](#))

The calls of WWTF take place in specific topics, some examples are: Vienna Research Groups for Young Investigators (VRG); open upon invitation; Cognitive Sciences (CS); Life Sciences (LS); NEXT - New Exciting Transfer Projects (NXT); Environmental Systems Research (ESR); Mathematics and... (MA); Information and Communication Technology (ICT); University Infrastructure Programme (UIP).

Vienna Business agency

For over 30 years, the aim of [Vienna Business agency](#) is to support Viennese companies and their innovative power. The agency supports important topics for the city: life sciences, urban technologies, creative industries and ICT.

The agency has activated the following funding programs:

Forschung Programme

[The Forschung programme](#) provides support in the implementation of research and development projects leading to innovations in products, services or processes.

The funding period is from January 2018 to December 2021.

The programme supports SMEs, Large enterprises and research institutions (as partners).

The minimum funding rate is 35% and the maximum funding rate is 80%.

The minimum project value is: € 50,000.00

The maximum funding amount is € 500,000.00 per project.

A particular aspect is the Women's bonus of € 10,000.00.

Innovative Programme

[The Innovative programme](#) supports Viennese SMEs into creation of innovative services, products, procedures and organisational processes

The funding period is from January 2018 to December 2021.

The programme supports Viennese SMEs.

The minimum funding rate is 35% and the maximum funding rate is 45%.

The minimum project value is: € 30,000.00

The maximum funding amount is € 200,000.00 per project.

A particular aspect is the Women's bonus of € 5,000.00.

2.1.3 Switzerland

Switzerland is among the countries with the highest R&D expenditure in relation to their gross domestic product. The private sector supports the cost of over two thirds of R&D spending in Switzerland, which currently amounts to around 3% of GDP, or around CHF 16 billion. (Source: www.sbf.admin.ch).

The next paragraph presents the cantonal instruments related to R&I, in some cases the instruments cover an over-cantonal area.

The organizational strategies to increase the network between the various SHs in R&I have not been considered in this report, as they are not considered funding instruments. (e.g. Greater Zurich Area).

The Switzerland intramural R&D in 2015 is a cumulated data figure of € 20,656.00 million. (Source: Eurostat).

Graubünden

Stiftung für Innovation, Entwicklung und Forschung Graubünden

At the end of 2017 the foundation for Innovation, Development and Research Grisons was converted into an innovation fund. The Foundation for Innovation was established in December 2007 with a capital of CHF 30 million. The remaining funds of the Foundation for Innovation, Development and Research of the Grisons, amounting to around **CHF 1.1 million**, have been transferred to a cantonal innovation fund since 1st January 2018. The focus is on the promotion of start-ups, in particular of technologically oriented ones. Applications for innovative projects can be submitted to the [Department for Economic Affairs and Tourism](#).

AO Foundation

The [AO Foundation](#) is a medical no-profit organization led by an international group of surgeons specialized in the treatment of trauma and disorders of the musculoskeletal system. Founded in 1958, AO today fosters one of

the most extensive networks of currently more than 20,000 surgeons, operating room personnel, and scientists in over 100 countries.

The AO Strategy Fund was approved by the AO Foundation Board (AOFB) in 2013, with a total budget of **CHF 15 million**. The Fund is dedicated to supporting new strategically important initiatives in the following areas of interest: Trauma; Spine; VET; CMF.

AO Foundation offers **Research Grants**, like [AO Start-up Grant](#) to encourage young researchers and it also offers a number of **fellowships** for surgeons and ORP.

Aargau

Since 2008, the Canton of Aargau supports the transfer of knowledge and technology between universities and commercial companies based in Argovia, with funding from the Argovia Research Fund. With the agreement of 14th December 2017, the Canton transferred the fund administration to [High Tech Zentrum Aargau AG](#) for the period 2018-2022.

The goals of the Aargau research fund are:

- Promote innovation in the economy of Aargau;
- Support the transfer of knowledge and technology between universities and existing companies in Aargau;
- Provide incentives for innovative and high value-added companies to make the canton of Aargau an attractive location for their settlement.

For the 2018-2022 period, the total budget is **CHF 1.4 million**.

St. Gallen, Appenzell Ausserrhoden and Appenzell Innerrhoden.

Start Feld

[Start Feld](#) is an organisation formed by Startfeld Association, Startfeld Foundation and Feld3 Association. Start Feld supports initiatives in the cantons of **St. Gallen, Appenzell Ausserrhoden and Appenzell Innerrhoden**.

Start Feld supports start-up through different measures:

Measure 1: Allows smaller start-ups to quickly and efficiently implement ideas that would fail early on without a microloan, due to lack of resources. The microloan can be granted at attractive interest rates, since BG Ost guarantees the loan. In certain cases, BG Ost's processing fee of CHF 1,200 is waived. The duration is agreed upon individually. Up to CHF 50,000

Measure 2: Young companies based in the cantons of St. Gallen, Appenzell Ausserrhoden or Appenzell Innerrhoden can apply for a start-up loan in the form of a personal loan from the Startfeld Foundation. The maximum duration is eight years. This provides enough time to develop the business idea and introduce it to the market. The business idea is presented to the Expert Committee and then to the Foundation Board, which immediately makes a decision regarding the approval of the loan afterwards. Up to CHF 300,000.

Bern

The Hasler Foundation

The [Hasler Foundation](#) promotes ICTs for the well-being and benefit of Switzerland as an intellectual and industrial centre. The Foundation aims to play an active role in ensuring that Switzerland continues to take a leading position in science and technology in the future. The Foundation provides its support by financing or co-financing selected educational, research and innovation projects and undertakings in the field of ICT.

The Hasler Foundation supports projects or innovative ideas regarding ICT or innovative applications of ICT through: Grants, Professorships, Start-ups support and Open support, research and innovation projects. Hasler Foundation funds projects up to CHF 50,000.00 (in exceptional cases it will remain possible to submit proposals for research projects exceeding the sum of CHF 50'000.00).

Basel-Landschaft, Basel Stadt and Jura ***Intercantonal Program***

The Cantons of Basel-Stadt, Basel-Landschaft and Jura decided to jointly develop a program intercantonal implementation for the new regional policy (NRP) for the period 2016-2019, in order to optimize the R&I support.

The aim is to create a coordinated regional innovation system for the Basel-Jura region, centred on the Joint Innovation Promotion / Basel Area and the Swiss Innovation Park Northwestern Switzerland (SIP Basel Area), which are closely linked through the joint project "Accelerator". These two institutions and the joint project will be tricantonal operated and financed and should become the intermediary hub for the exchange of knowledge between the actors within the functional space, as well as the interface to other functional spaces and actors in Switzerland and abroad.

In the NRP implementation period 2016-2019, it should be expanding the cooperation of the Cantons of Basel-Stadt, Basel-Landschaft and Jura through the following objectives:

- Maintain and develop the very good economic conditions;
- Strengthen the innovation and the start-up dynamics;
- Strengthen cooperation;
- Cantonal cooperation.

Basel Areas.swiss

[BaselArea.swiss](#) is a joint initiative for innovation and economic promotion by the cantons of **Basel-Stadt, Basel-Landschaft and Jura** in Northwestern Switzerland. BaselArea.swiss supports entrepreneurs and companies from abroad with the successful implementation of innovation and business ventures in the Basel region.

BaselArea.swiss receives the support of the federal government as part of the New Regional Policy (NRP).

BaseLaunch

Managing Authority is [Basel Area Swiss](#). The [BaseLaunch](#) started in 2017 as an initiative of BaselArea.swiss, the innovation and economic promotion agency for the region of Basel. The BaseLaunch supports the acceleration works to attract and accelerate promising and ground-breaking healthcare start-ups.

During phase I, financial support can be as high as CHF 10,000.00 per project. For projects that reach phase II, up to CHF 250,000 in equity-free funding is available.

Fribourg

Fribourg Innovation Fund

[The Canton of Fribourg Innovation Fund](#) promotes cooperation between universities and companies in the canton by funding research projects in science and technology. The aid is aimed at universities that work with companies to develop projects that have a significant economic impact on the canton. The innovation fund invests in products, processes and services cost more than **CHF 100,000.00** and covers up to 50% of the total costs of a project.

Seed Capital

The [Foundation Seed Capital Freiburg](#), based in Freiburg, has a total capital of **CHF 2,000,000.00**. The capital is composed not only of government contributions, but also of private funds, donations, legacies and similar contributions.

In order to benefit from the Foundation's funding, here are some of the elements that must characterize the application:

- Project that promotes innovation in the economy of Fribourg.
- Area with high added value, scientific or technological.
- Project manager demonstrating his entrepreneurial vocation.
- Identified commercial potential.
- Funds used to confirm technical and commercial feasibility.

The main objective of the Foundation seed capital Freiburg is the support of economic innovation in Freiburg. The financing will generally be in the form of interest-free loans of an amount not exceeding CHF 200,000.

Geneva

Fondation Genevoise Pour L'innovation Technologique – FONGIT

The [FONGIT](#) was founded in 1991,s as a private no-profit foundation. It is the first start-up incubator in Switzerland. FONGIT supports innovative entrepreneurs in the process of transforming an idea, an invention, through the creation of start-ups in the ICT sectors (fintech, blockchain, security, big data), engineering (IoT, cleantech) and medtech. The FONGIT finances up to CHF 150,000.00 per start-up.

Glarus

Currently no regional funds for R&I are activated.

Lucerne

Currently no regional funds for R&I are activated.

Neuchatel, Berne, Vaud and Jura

Programme Intercantonal Arc Jurassien 2016-2019

The Arc Jurassien Intercantonal Programme involved Berne, Jura, Neuchâtel and Vaud Cantons.

The objectives of intercantonal programme are:

- Support projects deriving from innovative processes of product generation, capitalization and dissemination of results;
- Support measures to improve the skills of the industrial workforce;
- Support measures to strengthen the economic identity of the Arch Jurassien;
- Support the creation of new multi-actor tourism products;
- Support measures to improve the know-how of tourism actors; Encourage the development of an integrated tourism system (ITS).

The total budget for the period 2016-2019 is: **CHF 3,200,000.00**

Nidwalden

Currently no regional funds for R&I are activated.

Obwalden

Currently no regional funds for R&I are activated.

Schaffhausen

Currently no regional funds for R&I are activated.

Schwyz

Support for innovative projects for agriculture

The [Canton Schwyz](#) supports innovative projects that increase competitiveness in agriculture in terms of relaunching with one-off or temporary contributions. Contributions to innovative projects can be granted to farms or self-help rural organizations. Applications are evaluated according to the criteria of innovation, diversification, market orientation, practicality, economic efficiency, regional importance and ecology.

Solothurn

Currently no regional funds for R&I are mapped.

Thurgau

Currently no regional funds for R&I are mapped.

Ticino

Economic Innovation Act ([LInn](#)) (14th December 2015)

The measures envisaged by this law support:

- a) Creation and development of new companies;
- b) Growth and consolidation of existing companies;
- c) Business transmission processes;
- d) Attraction of companies from abroad.

The total budget for the period 2016-2019 is **CHF 20.000.000,00**.

Boldbrain Startup Challenge

[Boldbrain](#) Startup Challenge is an acceleration program for innovative "early stage" start-ups jointly organized by [AGIRE](#)⁶ Foundation and CP Startup. Projects that pass the first selection phase benefit from a free three-month coaching program. The 5 finalists are rewarded with cash prizes (up to CHF 120,000.00) and other benefits (for a value up to CHF 50,000.00).

Thanks to the cooperation with the Swiss Economic Forum and Swiss Startup INVEST, the finalists are automatically admitted to the second phase of the Swiss Economic Award and to the annual event Swiss Venture Day in Ticino.

Uri

Currently no regional funds for R&I are mapped.

Valais

Currently no regional funds for R&I are mapped.

Zug

Zentralschewiz innovativ

The Canton Zug is a partner of "Zentralschewiz innovativ". [Zentralschewiz innovativ](#) is the joint program of the six cantons of central Switzerland to strengthen the competitiveness of local businesses. The program supports SMEs in implementing innovative ideas and projects with minimal bureaucracy. Access to services is open to all interested and innovative SMEs in central Switzerland.

Zürich

[Kickstart Accelerator](#) is an initiative of [Impact Hub Zürich](#) and was launched in 2015 by [digitalswitzerland](#).

For 2018, Kickstart manages four themes: EdTech, FinTech & Crypto, Food & Retail Tech and Smart Cities & Infrastructure) with important organizations, such as Coop, Credit Suisse, Migros, Swisscom, AXA Winterthur, City of Zürich, ETH Zürich, EY, Gebert-Rüf-Stiftung, Stiftung Mercator Schweiz, Stäubli, Swisslinx and University of Zürich.

⁶ [AGIRE](#), the Innovation Agency of Southern Switzerland, is a public-private partnership established in 2011 that promotes local innovation, entrepreneurship and economic competitiveness, targeting the creation of high-skilled jobs on the territory.

Kickstart Accelerator bridges the gap between start-ups, companies, cities, foundations and universities to accelerate deep tech innovation.

Kickstart Accelerator is open to national and international start-ups that are developing and/ or applying technologies in the following fields: AI, Big Data, Blockchain, Robotics, etc. - in the areas of EdTech & Learning, FinTech and Crypto, Food & Retail Tech and Smart Cities & Infrastructure. Kickstart actively promotes collaborative projects between start-ups and accelerator partners.

The total budget is **€250,000,000.00**

2.1.4 Germany

Eurostat defines the data concerning 2013 and 2015 Total Expenditure for R&I in each Germany region as defined in the graph below (source [Eurostat database](#)):

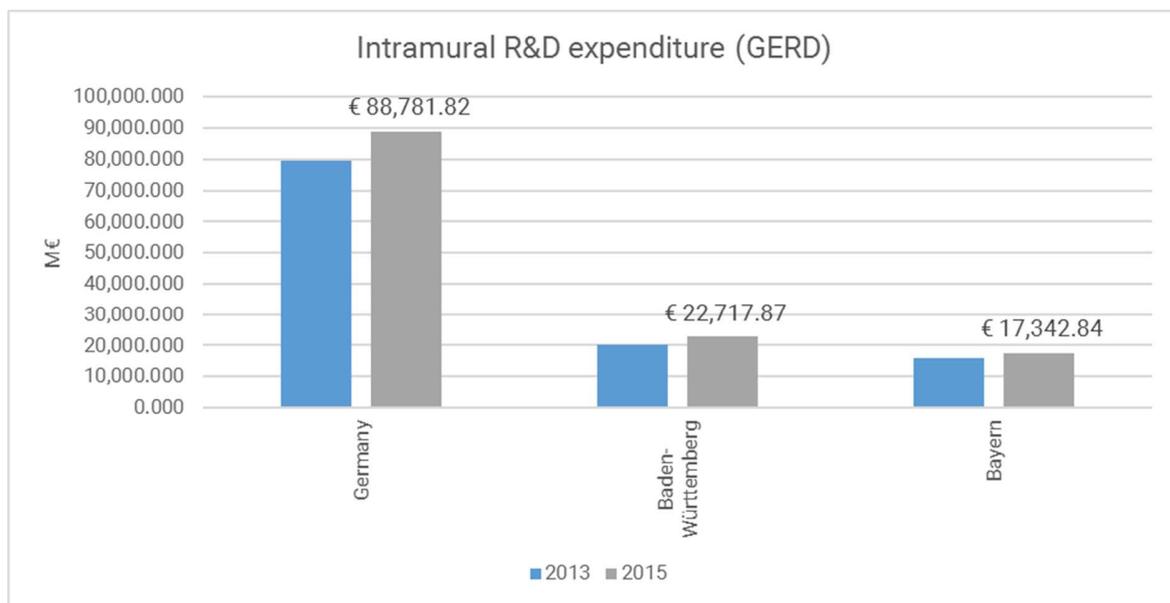


Figure 2 – Bayern and BW Intramural R&D expenditure

Bayern

[Bavarian Research and Innovation Agency](#) is an important regional contact point. It helps SMEs and educational institutions obtaining funds from the Free State of Bavaria, the German Federal Government and the EU. Bavarian Research and Innovation Agency collaborates with five strong institutions:

- a) [Bayerische Forschungsallianz – Bavarian research Alliance](#);
- b) [Bayerische Forschungstiftung - Bavarian Research Foundation](#);
- c) [Bayerische Patentallianz](#)
- d) [Bayern Innovativ](#)
- e) [Projekttraeger Bayern](#)

The Bavarian funds related to R&I can be divided in:

- Funding programs of the Bavarian Ministry of Science (StMWK);
- Funding programs of the Bavarian Ministry of Economic Affairs (StMWi) - Technology promotion;
- Funding program of the Bavarian Research Foundation: "High Technologies for the 21st Century.

Funding programs of the Bavarian Ministry of Science (StMWK)

BayIntAn

[BayIntAn](#) is a funding program, started in 2012, that provides funding for cooperation between scientists from Bavarian universities and universities of applied sciences and foreign partners.

The funds come from the Bavarian Ministry of Science and the Arts (StMWK), while the administrative and content management is from Bayerische Forschungsallianz.

The main objectives are:

- Establish or deepen scientific cooperation between scientists at Bavarian state universities and colleges and international research institutions;
- Increase the networking and cooperation of Bavarian scientists;
- Confirm the Bavarian position of science and innovation in the international research scene;
- Increase the participation of Bavarian scientists in international funding projects, in particular EU research projects.

The maximum amount is € 10,000 per application.

***Funding programs of the Bavarian Ministry of Economic Affairs (StMWi) - Technology promotion:
Bavarian Program for the Promotion of Technology-Oriented Business Start-ups (BayTOU)***

The new innovative technology-oriented companies can receive subsidies from the BayTOU "Bavarian Program for the Promotion of Technology-Oriented Start-ups" requesting the equity capital from Bayern Kapital GmbH. The grant authority is the Ministry of Economy and Media, Energy and Technology and the Managing Authority is Bayern Innovativ.

The minimum contribution is € 15,000.00.

The maximum contribution is € 26,000.00.

Funding should stimulate and support start-ups in technology sectors.

The programme support technologically and economically risky development projects and early development projects.

Bavarian Technology Promotion Program (BayTP)

The Bavarian Ministry of Economic Affairs offers grants from the [BayTP](#)- Bavarian Technology Promotion Program - to co-finance research and development projects.

It is about low-interest loans or grants given to small and medium-sized enterprises in the commercial sector to give them the opportunity to invest in technologically new products development, production processes and knowledge-based services. The Program includes also the option to fund projects addressed to implement the application of new technologies in companies.

FLÜGGE

Program for the promotion of the validation of research results and inventions (validation support) as well as the easier transition into a founding existence (**FLÜGGE**) in the field of general technological innovations.

The FLÜGGE program is addressed to young graduates and university employees in Bavarian public universities who want to implement in their own company an innovative business idea in the production and service area with a clearly recognizable and potential market volume. Applicants to this program can be in team or in individual form. The programming period is 2017-2019.

Förderprogramm FuE "Informations- und Kommunikationstechnik Bayern"

The funding program "[Information and Communication Technology](#)" supports joint research and development projects addressed to companies (SMEs, Large enterprises.) or research institutes and research companies.

Economic commercial companies can receive up to 50% of the total eligible costs.

While for what concerns research institutions, a higher funding rate is possible, however, the funding ratio of the entire association cannot exceed the 50%.

Typical project periods range is registered between 1.5 and 3 years.

Förderprogramm “Elektronische Systeme”

With the "[Electronic Systems](#)" funding program, Bavarian State Government supports companies in research and development projects with the main aim to implement new products and to sustainably strengthen the innovative power and competitive position of Bavarian companies.

Typical project periods range is registered between 1.5 and 3 years.

The overall network promotion (research institutes and private companies) cannot exceed 50%. Overmentioned financial program is addressed to research companies or institutes with headquarter or subsidiary registered in Bayern.

“Electromobility and innovative drive technologies for mobile applications” programme (BayEMA)

The “Electromobility and innovative drive technologies for mobile applications” ([BayEMA](#)) fund program supports research and development of vehicles, innovative drives and relative necessary subsystems and components.

This supporting program aims to promote R&D&I in the field of electromobility and innovative propulsion technologies for mobile applications or related subsystems and components; thereby stimulating the faster dissemination of these innovative technologies in road transport field.

This measure’s purpose is to discover the technical and innovative potential force of companies in the automotive industry, especially small and medium-sized companies; this in order to solve the upcoming problems and to strengthen R&D&I capacities in Bayern area.

The support percentage is:

- up to 50% for the industrial research project or feasibility studies;
- up to 25% for the experimental development project or feasibility studies.

Funding Program "New Materials" (BayNW)

The [BayNW](#) "New Materials" funding program is designed to support research, development and testing of modern materials and new process technologies.

Beneficiaries are SMEs, Large enterprises, Universities, private research centers.

The aid intensity (of total eligible costs) is:

- up to 50% for the industrial research projects;
- up to 25% for the experimental development projects.

Funding Program "Medical Technology" (BayMED)

[BayMED](#) fund is intended to facilitate research and development (R&D) in the field of medical technology, as well as to accelerate the switch from research results into new products and processes.

The orientation of the R & D projects has been planned and studied in order to increase health care competence and efficiency in Bayern.

Grants are addressed to integrated and cooperative projects for research and development in the field of medical technology.

Support will be given to technology, products and processes innovative R&D projects and, in exceptional cases supported from technical feasibility studies, will be given also to industrial research or experimental development projects. The aid intensity is:

- up to 50% of the eligible costs of the project or the feasibility study in the case industrial research,
- up to 25% of the eligible costs of the project or the feasibility study in the case the experimental development.

Förderprogramm "Bio- und Gentechnologie" (BayBIO)

[BayBIO](#) aims to enable companies in the industrial sector to undertake fundamental research and development projects in the field of modern biotechnology and genetic engineering.

Moreover, its intent is to enable also the implementation of research and development results of modern biotechnology and genetic engineering into new products, new processes, new technologies and new knowledge-based services or accelerate them.

The aid intensity (of total eligible costs) is:

- up to 50% for the project or the feasibility study in industrial research,
- up to 25% for the project or the feasibility study in experimental development.

Funding Program "Innovative Energy Technologies and Energy Efficiency"

On the one hand, the [Bavarian energy research program](#) should promote the research, development and application of new energies, and on the other hand, new energy saving technologies should be developed and tested.

Main program's topics are the followings:

- Research and development of new energy and energy saving technologies;
- Aid for investment in innovative energy-saving measures and promotion of renewable energies for demonstration and implementation (demo project);
- Technical feasibility studies oriented to industrial research or experimental development.

The projects must be characterized by a high level of innovation, i.e. the technologies, products and services to be developed or demonstrated must in their capacity go beyond the state of the art in science and technology. The max support aid cannot exceed 50% of costs.

Funding program of the Bavarian Research Foundation: "High Technologies for the 21st Century"

[Bayerische Forschungsstiftung - Bavarian Research Foundation;](#)

The Bavarian research foundation specifically promotes the research and development of future technologies in eight priority areas:

- Life sciences;
- Information and communication technology;
- Microsystems Technology;
- Materials science;
- Energy and the environment;
- Mechatronics;
- Nanotechnology;
- Process and production technology.

The grant aims to allow universities and non-university research institutions, as well as commercial enterprises, to carry out research and development activities in the thematic areas.

The aid supports research and experimental development projects and feasibility studies.

The amount of support for the expenses incurred in the project amounts to:

- up to 100% of eligible costs in the case of strategic and exceptional basic research which is not linked to industrial or commercial objectives of a given company;
- up to 50% of the eligible costs in the case of industrial research;
- up to 25% of the eligible costs in the case of experimental development;
- up to 50% of the eligible costs for feasibility studies.

About 35-45 projects are funded every year.

Rural Development Programme 2014-2020

Bavaria's Rural Development Programme (RDP) outlines priorities for using the total budget of **€ 3.6 billion** available for the 7-year period 2014-2020.

Knowledge transfer and innovation in agriculture, forestry and rural areas is a cross-cutting priority.

Bavaria wants to stimulate innovations that help to tackle megatrends such as food security, climate change, animal welfare and the preservation of biodiversity.

The four biggest RDP measures in budgetary terms (EAFRD) are:

- € 600 million allocated to M10: Agri-environment-climate payments
- € 388 million allocated to M13: Payments to areas facing natural or other specific constraints
- € 206 million allocated to M11: Organic Farming
- € 162 million allocated to M04: investments in physical assets

Baden-Württemberg

Rural Development Programme 2014-2020

Rural Development Programme (RDP) for Baden-Württemberg outlines the priorities for using more than **€ 1.8 billion** of public money that is available for the 7-year period 2014-2020 (€ 709 million from the EU budget, including € 91 million transferred from the German envelope for CAP direct payments, and € 635 million of national co-funding plus € 479 million of additional national funding top-ups).

The RDP considers knowledge transfer and innovation in agriculture, forestry and rural areas as a cross-cutting priority, RDP expects to support 130 cooperation projects in the framework of the European Innovation Partnership (EIP) for Agricultural Productivity and Sustainability.

The four biggest RDP measures in budgetary terms (total public funding, including additional national top-ups) are:

- € 533.8 million allocated to Measure 10: Agri-environment-climate
- € 533.3 million allocated to Measure 4: Investments in physical assets
- € 210 million allocated to Measure 13: payments for areas facing natural constraints
- € 164 million allocated to Measure 11. Organic farming

The Ministry of Economy, Labor and Housing

The Ministry of Economy, Labour and Housing provides the following instruments for R&I:

Einstieg in die Forschung

The Ministry of Economy, Labour and Housing provides [Innovation vouchers](#).

Innovation vouchers A and B support SMEs during the step of planning, development and implementation of innovative products, services and production processes.

Beneficiaries are SMEs, and Start-up.

Voucher A: € 2,500.00 for scientific activities leading to the development of an innovative product, service or process. (e.g. feasibility studies or design studies). Funding covers up to 80% of the costs.

Voucher B: € 5,000.00 for implementation-oriented research and development activities (e.g. Design and construction, service engineering, prototype construction and product testing for quality assurance or environmental compatibility). Funding covers up to 50% of the costs.

Innovation Voucher A and B can be combined.

For Innovative Start up Companies

The innovative start up companies support is an early for high-tech start-ups in connection with highly innovative research and development projects.

The eligible beneficiaries are entrepreneurs and start-up companies as well as young companies up to a maximum of 5 years after founding, which have their headquarters in Baden-Württemberg.

The innovation voucher Hightech Start-up supports implementation-oriented research and development in the context of an innovative project in the following areas:

- Sustainable mobility
- Environmental technology, renewable energy and resource efficiency
- Health Economics, Life Sciences
- Information and Communication Technology (ICT), Green IT and Smart Products

The grant is up to € 20,000.00 and covers up to max 50% of the fees charged to the company. To receive the maximum amount of support, the minimum project budget should be € 40,000.00.

For sophisticated R & D projects of established companies

The [innovation coupon Hightech Digital](#) aims to support the ambitious research and development projects of established companies that aim for digital products and services.

The Innovation Coupon Hightech Digital supports implementation-oriented research and development activities in the context of the realization of sophisticated digital products and services related to, for example, these areas:

- solutions for the digital transformation of business models;
 - development of solutions related to Industry 4.0;
 - Networked systems and processes;
 - Internet of Things;
 - Smart Services;
 - highly flexible automation;
 - Big Data projects
 - Simulation Models
 - Virtual and Augmented Reality
 - Embedded Systems

The grant is up to € 20,000.00 and covers up to max 50% of the expenses charged to the company.

In order to receive the maximum amount of support, at least € 40,000.00 (net) of eligible expenditure must be demonstrated.

For sophisticated R & D projects of established companies in the field of mobility

The [innovation voucher Hightech Mobilität](#) has the purpose to support demanding research and development projects of established companies that aim for sustainable products and services of future mobility.

The innovation voucher Hightech Mobilität promotes implementation-oriented research and development activities in the context of the realization of sustainable products and services of future mobility, covering for example the following topics:

- automated driving and vehicle networking;
- fail-safe components and systems;
- contributions to novel vehicle components (including commercial vehicles);
- Vehicle-compatible battery systems and corresponding manufacturing technologies;
- drive systems;
- electronic vehicle components and systems (including power electronics);
- functionally integrated and / or modular components for electromobility;
- charging technology;
- new process and plant technologies for manufacturing innovative components and products;
- resource-saving logistics concepts / solutions

The grant is up to € 20,000.00 and covers up to max 50 % of the expenses charged to the company. In order to receive the maximum amount of support, at least € 4,000.00 (net) of eligible expenditure must be demonstrated.

2.1.5 France

The information currently available has revealed that the Rural Development Program is the only regional program that, in a cross-sectoral way, supports actions related to R&I.

Eurostat defines the data concerning 2013 Total Expenditure for R&I in EUSALP French region as defined in the graph below (source [Eurostat database](#)), 2015 dataset is not available:

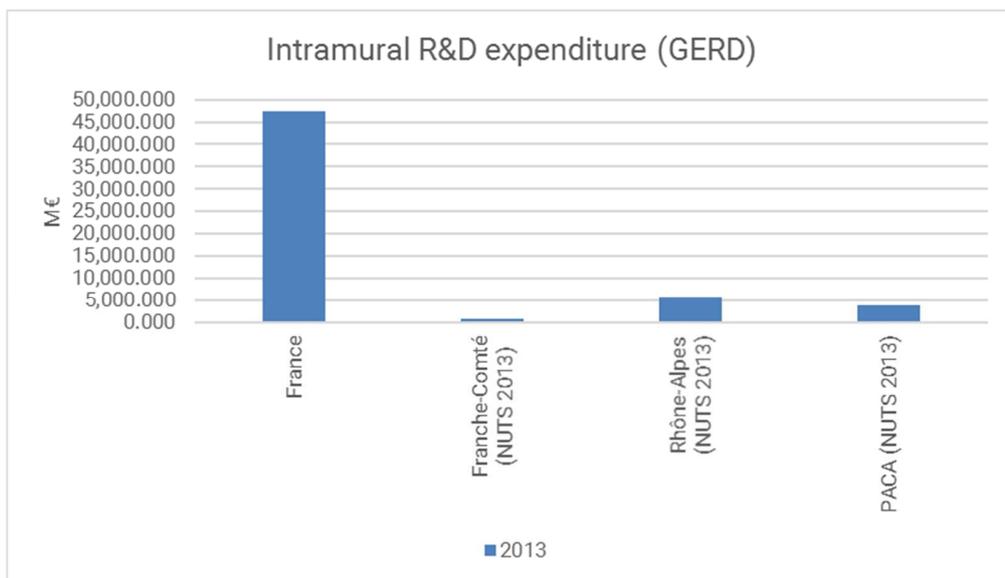


Figure 3 – Intramural R&D expenditure in EUSALP French regions.

Franche-Comté

Rural Development Programme 2014-2020

Franche-Comté Rural Development Programme ([RDP](#)) draws up the strategy for using the **€ 608 million** of public funds available for the 2014-2020 period, including 444 million euro from the budget of the EU (4.6% of the envelope granted to France) and 164 million of national counterparts. The RDP considers knowledge transfer and innovation in agriculture, forestry and rural areas as a cross-cutting priority. Franche-Comté's RDP supports the setting up of 5 cooperation projects in different fields.

The four biggest RDP measures in budgetary terms (total public funding, including additional national top-ups) are:

- a) € 319 671 877 allocated to Measure 13: payments for areas facing natural constraints
- b) € 69 928 175 allocated to Measure 6: Farm and business development
- c) € 61 482 010 allocated to Measure 4: Investments in physical assets
- d) € 47 581 743 allocated to Measure 7. Basic services and village renewal in rural areas

PACA region

Rural Development Programme 2014-2020

The Rural Development Programme ([RDP](#)) of Provence-Alpes-Côte d'Azur draws up the strategy for using the **€ 729 million** of public funds available for the 2014-2020 period, including 477 million euro from the budget of the EU (4.2% of the envelope granted to France) and 252 million of national counterparts. The RDP considers knowledge transfer and innovation in agriculture, forestry and rural areas as a cross-cutting priority. PACA's RDP expects to support 100 cooperation projects, 25 of which under the European Innovation Partnership (EIP) for productivity and sustainable development of agriculture.

The four biggest RDP measures in budgetary terms (total public funding, including additional national top-ups) are:

- a) € 284 276 372 allocated to Measure 13: payments for areas facing natural constraints
- b) € 114 757 005 allocated to Measure 10: Agri-environment-climate
- c) € 98 031 567 allocated to Measure 4: Investments in physical assets
- d) € 97 727 623 allocated to Measure 7. Basic services and village renewal in rural areas

Rhône Alpes

Rural Development Programme 2014-2020

Rhône-Alpes' Rural Development Programme ([RDP](#)) draws up the strategy for the use of the **€ 1.629 billion** of public funds available for the 2014-2020 period, including € 1.060 billion from the budget of the EU (10.0% of the envelope granted to France) and € 578 million of national counterparts. The RDP considers knowledge transfer and innovation in agriculture, forestry and rural areas as a cross-cutting priority. Rhône-Alpes' RDP expects to support 100 cooperation projects, 25 of which under the European Innovation Partnership (EIP) for productivity and sustainable development of agriculture.

The five biggest RDP measures in budgetary terms (total public funding, including additional national top-ups) are:

- a) € 783 488 897 allocated to Measure 13: payments for areas facing natural constraints
- b) € 279 075 000 allocated to Measure 4: Investments in physical assets
- c) € 139 880 000 allocated to Measure 6. Farm and business development
- d) € 89 275 000 allocated to Measure 19. Leader
- e) € 85 663 003 allocated to Measure 10: Agri-environment-climate.