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EUROPEAN UNION

EUROPEAN RESEARCH AREA
AND INNOVATION COMMITTEE

– ERAC –
Secretariat

Brussels, 2 March 2017
(OR. en)

ERAC 1202/17
ADD 1

NOTE

From:	ERAC Secretariat
To:	Delegations
Subject:	ERAC Opinion on Streamlining the Research and Innovation Monitoring and Reporting Landscape - Annexes

Delegations will find attached the annexes to the ERAC Opinion on Streamlining the Research and Innovation Monitoring and Reporting Landscape.

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EU SECRETARIAT
MINISTRY FOR EUROPEAN AFFAIRS AND
IMPLEMENTATION OF THE ELECTORAL
MANIFESTO

5 September 2016

Discussion Paper on Streamlining the Research and Innovation Monitoring and Reporting Landscape

September 2016

Background

In April 2014, an European Reseach Area and Innovation Committee (ERAC) opinion on 'Member States' reporting on research and innovation reforms in view of their National Reform Programme' highlighted that "the increasing reporting burden on many Member States calls for some streamlining of the various reporting exercises in the field of research and innovation". A recommendation was also made for the European Research Area and Innovation Committee (ERAC) to discuss the issue of reporting burden and propose solutions for its alleviation within the context of the work done by DG RTD. One of the main outcomes of this debate was the agreement, throughout 2015, on the 'merging' of the OECD Science Technology and Innovation (STI) Outlook Survey and the National Reform Programme Questionnaire into a joint survey.

The year 2015 was also pivotal with respect to discussions on the future of the European Research and Innovation Area (ERA). Council Conclusions on the ERA Roadmap and on the ERA Advisory Structure were discussed under the Latvian and Luxembourgish Presidencies. The Council Conclusions on the ERA Roadmap make reference to the need to develop a set of indicators to monitor the implementation of the ERA Roadmap on the basis of 6 priority areas, while the Council Conclusions on the ERA Advisory Structure include a specific reference to streamlining the R&I monitoring and reporting landscape in paragraph three:

'AGREES that whilst all the ERA-related groups continue to fulfil their functions, more effort needs to be made to reduce added monitoring and reporting burdens on the Member States; CALLS on the Commission and the ERA-related groups to identify areas where monitoring and administrative burdens of reporting may be reduced through further streamlining'.

State of Play

The incoming Maltese Presidency of the Council has identified streamlining of monitoring and reporting in the R&I landscape as one of its Presidency priorities, with the ultimate goal of agreeing on a set of Council conclusions on this subject at the planned 30 May 2017 Competitiveness (Research) Council . Initial feedback indicates that the topic of streamlining has been well received by Member States and the European Commission. Indeed, the Maltese Presidency wishes to work towards an improved reporting landscape which results in a win-win situation for all. It was deemed opportune to discuss this topic in ERAC and prepare an ERAC Opinion to pave the way towards the Council Conclusions, since ERAC is uniquely positioned to discuss and advise on this topic in view of its overarching role in the ERA

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monitoring and implementation. In preparation for the discussion in ERAC, Malta has done a stock-taking exercise of existing reports and requests for information received from various sources. Each of these was mapped thematically against each ERA priority in order to identify where overlaps of information exist. In this context, we identified 'overlaps' as instances where different reports present essentially the same information, in the same (or very similar) format. By way of example, the topic on migration of researchers (ERA Priority on 'Open Labour Market'), is tackled within the RIO Country Report, ERA Progress Report, the OECD STI Policy Questionnaire and the CION fact-finding missions. The information contained in each of these reports/ questionnaires is essentially the same, and no new insights are gained from looking at one report over another. On the contrary, the Innovation Union Scoreboard can be described as presenting information on the effectiveness of national research systems (ERA Priority 1). However during the mapping exercise, this was not identified as an overlap, because the type of information provided and the way it is presented is different to other reports.

The outcomes of this work are summarised in Table 1 below. Informal discussions with colleagues also provided valuable insights. There are a number of interesting observations that can be extracted from the initial stock-taking and mapping exercise.

1. Duplication of information: Overlaps and duplication of information between different reports are clearly evident for several of the reports, particularly for those where substantial input from Member States is required. There is evidence of repetition of certain information in multiple reports, for example topics on gender dimension, innovation policy or international mobility can be found in the RIO Country report, the STI report and Researchers' report.

2. Practical relevance: The relevance of the reports in the practical work of policy making and implementation is highly variable, with some reports being more useful than others. This is of particular significance to small administrations, as these are unlikely to have the capacity to undertake separate, 'tailor-made' studies and reports. Any rationalisation exercise thus needs to identify the end-users of the report, as well as who is requesting the data and why.

3. Frequency: The frequency of reporting is at times not linked to the expected rate of change of the matters addressed by the report, thus creating administrative reporting burdens which in themselves do not result in much new and useful information. Therefore there is scope for evaluating the frequency with which certain reports are produced.

Initial discussions have led to the identification of a preliminary set of principles to guide the streamlining exercise. These principles are:

(A) Efficiency:

- Rationale for information requests should be clear ex-ante
- Optimizing internal information flow within Commission (with DGs and among different DGs)

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- Using existing sources of information when available .

(B) Usefulness:

- Focus on reporting exercices which are most useful in practice
- Timing of reports should reflect the dynamism or otherwise of the matters addressed by the reports

Questions for discussion:

1. What are ERAC delegates' experiences with different ERA reports? Do they agree with the concerns identified?
2. What do ERAC delegates think about the identified principles which should guide the streamlining exercise of reporting obligations? Do these encompass their wishes for how the ERA reporting system should function?

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Table 1 – Mapping exercise of overlaps of ERA priorities when comparing report

	ERA Priorities							Comments
Report written by the Commission with little or no input from MS	**Effective National Systems**	**Grand Societal Challenges**	**Research Infrastructures**	**Open Labour Market**	**Gender Dimension**	**Open Circulation & Transfer of Knowledge**	**International Cooperation**	
Science, Research and Innovation Performance of the EU								No particular overlap with ERA themes
Innovation Union Scoreboard								No particular overlap with ERA themes
Report on the implementation of the international cooperation strategy							X	
Report requiring substantial input from MS	**Effective National Systems**	**Grand Societal Challenges**	**Research Infrastructures**	**Open Labour Market**	**Gender Dimension**	**Open Circulation & Transfer of Knowledge**	**International Cooperation**	

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RIO Country Report	X		X	X	X	X	X	2016 report
ERA Progress Report	X	X	X	X	X	X	X	2014 report – will be interesting to see the new version
National ERA Roadmaps	X	X	X	X	X	X	X	
Commission Fact-finding Mission	X		X	X	X	X	X	Last carried out in 2015 – there was no fact finding mission in 2016 in MT
OECD STI Policy Questionnaire	X	X	X		X	X	X	
National Reform Programme								No overlap
She Figures					X			

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STREAMLINING THE RESEARCH & INNOVATION MONITORING AND REPORTING LANDSCAPE

- Karina Angelieva, rapporteur
- Krassimira Rozendal, conducted the survey

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BACKGROUND

- In April 2014, an ERAC Opinion linked to the National Reform Programme process highlighted that the increasing burden on many Member States **calls for some streamlining of the various reporting exercise in the field of R&I**; ERAC provided also a recommendation for further discussions on the reporting burden and to propose solutions for its **alleviation**

- The November 2015 Council conclusions on the ERA Advisory Structure agree that more effort needs to be made to reduce added monitoring and reporting burden on the Member States and call upon a) the Commission and b) the ERA-related groups to **identify areas** where monitoring and administrative burdens of reporting may be reduced through further **streamlining**

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PROCESS AND CONSULTATION

- Discussion and written comments from the ERAC meeting in Bratislava, September 2016
- Online Survey
- Workshop, 15 November
  - To reflect and discuss on the Commission (RTD) work
  - To reflect on the identified challenges: Practical relevance; Duplication and Frequency

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SUREY METHODOLOGY

- **Goal:**
  The main goal of the survey is to identify challenges but also possible solutions for further streamlining of the R&I monitoring and their added value for improvement of the ERA reporting process and practices.

- **Target:**
  ERAC Members

- **Method of registration:**
  Semi-open questionnaire, distributed online trough representative sample of specialist and government bodies responsible for a R&I reports and national policy.

Period:
The survey was online during the period : 11November – 25 November 2016. The survey involved 14 specialist from13 countries: Belgium, Bulgaria, Croatia, Cyprus , Lithuania, Malta, Romania, Sweden and Ireland with 2 respondents. They all gave their expert's opinion and the summary results will provide the Commission with a range of opinion and views about the functioning, achievements, and impact of the R&I monitoring and Reporting Landscape.

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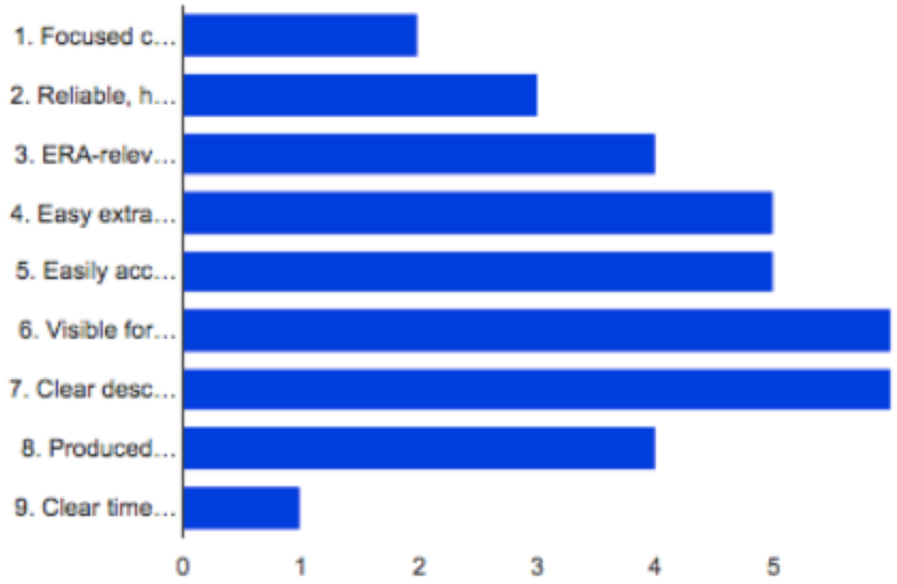
Q1. WHICH OF THE FOLLOWING FUTURES ARE MOST RELEVANT FOR YOU IN A RELATION OF R&I REPORTS?



The table shows the order of the aspects from the most to the less important:

Position :	Aspect:
1st	7. Clear description of data collection methods and analysis & 6. Visible for the public and/or stakeholders
2nd	4. Easy extraction and comparability of data 5. Easily accessible online
3th	8. Produced with minimum administrative burden/ information requests for the collection and reviewing of information 3. ERA-relevant policy monitoring, reference indicators and benchmarks
4th	2. Reliable, high quality and recent data, which does not overlap with those of other reports
5th	1. Focused content relevant for R&I policy making

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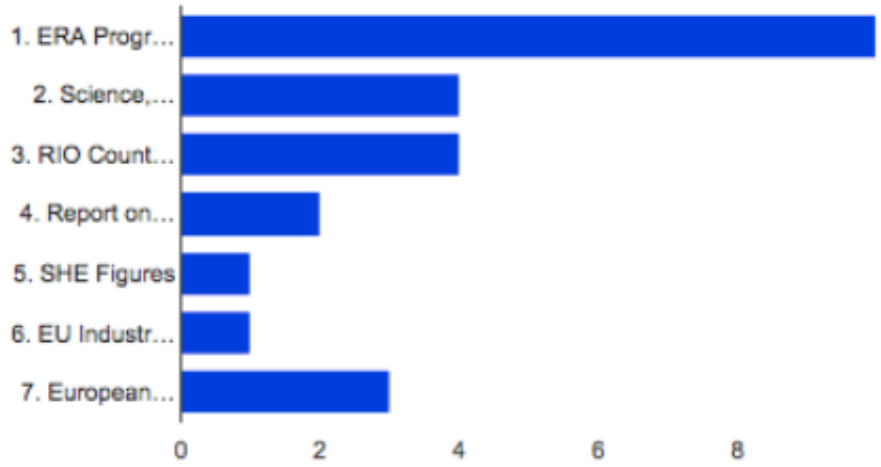
Q2.FROM YOUR EXPERIENCE, WHICH REPORT (S) BRING MOST ADDED VALUE TO THE IMPLEMENTATION OF THE ERA ROADMAP

- **on National level:**



1. ERA Progress report	10	71.4%
2. Science, Research and Innovation Performance in the EU	4	28.6%
3. RIO Country reports	4	28.6%
4. Report on the implementation of the Intern. Cooper. Strategy	2	14.3%
5. SHE Figures	1	7.1%
6. EU Industrial R&D Investment Scoreboard	1	7.1%
7. European Innovation Scoreboard	3	21.4%

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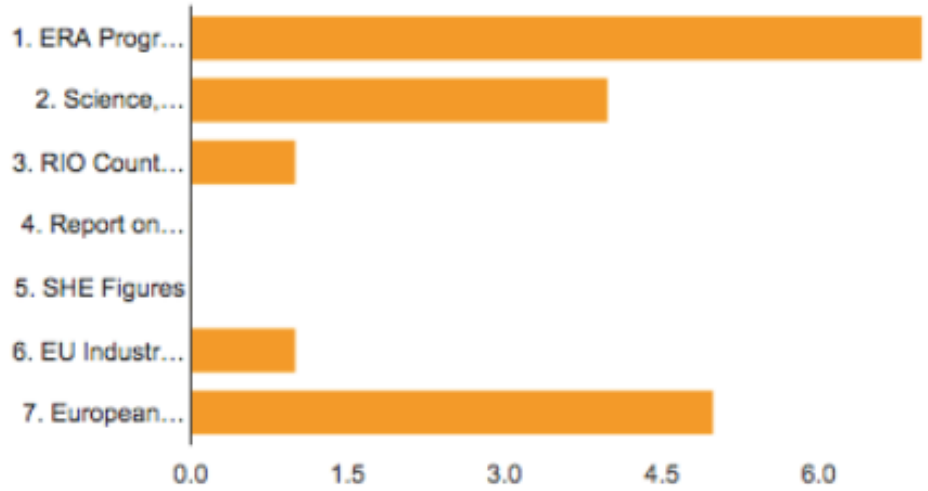
Q2.FROM YOUR EXPERIENCE, WHICH REPORT (S) BRING MOST ADDED VALUE TO THE IMPLEMENTATION OF THE ERA ROADMAP

- **on EU level:**



1. ERA Progress report	7	53.8%
2. Science, Research and Innovation Performance in the EU	4	30.8%
3. RIO Country reports	1	7.7%
4. Report on the implementation of the Intern. Cooper. Strategy	0	0%
5. SHE Figures	0	0%
6. EU Industrial R&D Investment Scoreboard	1	7.1%
7. European Innovation Scoreboard	5	38.5%

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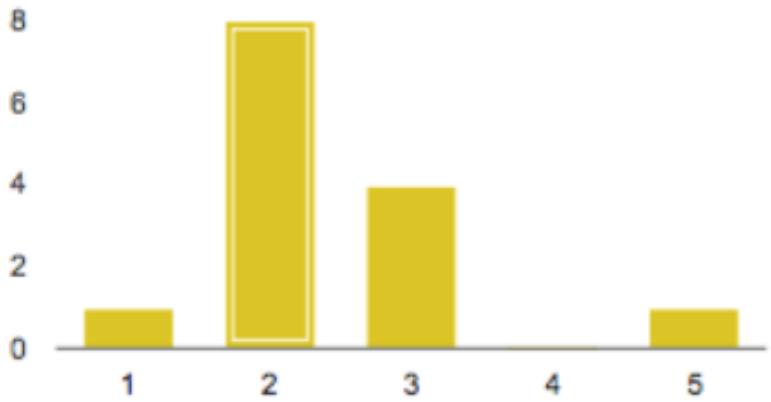
Q3.CAN YOU SHARE WITH US, HOW YOUR COUNTRY (EXPERTS' TEAM) EXPERIENCES THE FOLLOWING ACTIVITIES:

Preparation phase - collecting data/indicators



1. Highly challenging	1	7.1%
2. Challenging	8	57.1%
3. Neutral	4	28.6%
4. Not so challenging	0	0%
5. Not challenging at all	1	7.1%

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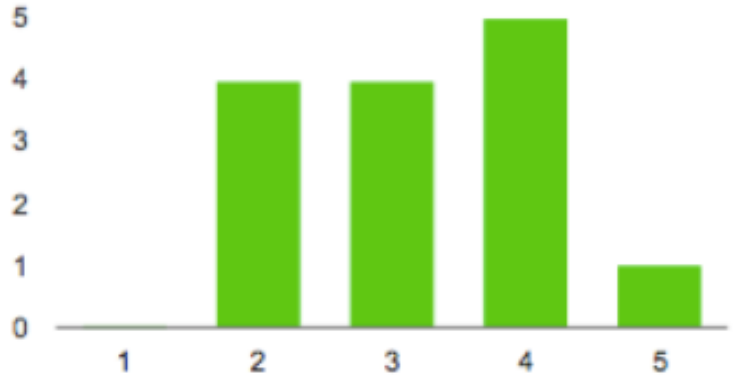
Q3. CAN YOU SHARE WITH US, HOW YOUR COUNTRY (EXPERTS' TEAM) EXPERIENCES THE FOLLOWING ACTIVITIES:

Preparation phase - finding information about previous periods or certain topics



1. Highly challenging	0	0%
2. Challenging	4	28.6%
3. Neutral	4	28.6%
4. Not so challenging	5	35.7%
5. Not challenging at all	1	7.1%

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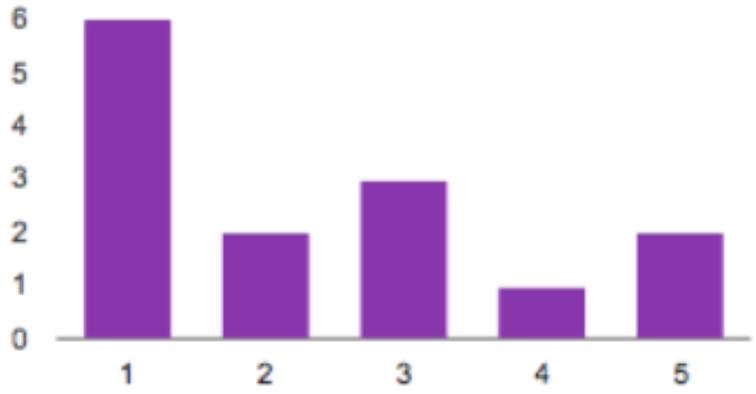
Q3. CAN YOU SHARE WITH US, HOW YOUR COUNTRY (EXPERTS' TEAM) EXPERIENCES THE FOLLOWING ACTIVITIES:

Allocating enough time and well-trained human resources to check consistency and eventually edit/ review draft reports



1. Highly challenging	6	42.9%
2. Challenging	2	14.3%
3. Neutral	3	21.4%
4. Not so challenging	1	7.1%
5. Not challenging at all	2	14.3%

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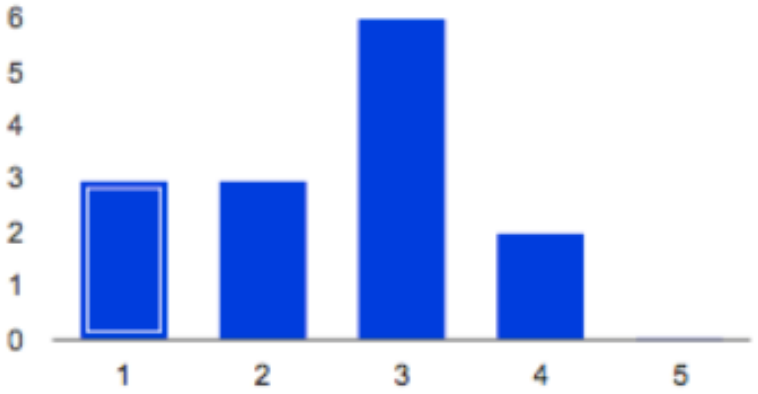
Q3. CAN YOU SHARE WITH US, HOW YOUR COUNTRY (EXPERTS' TEAM) EXPERIENCES THE FOLLOWING ACTIVITIES:

Inter-institutional coordination, including with national statistical institutes and public research organisations concerning data gathering



1. Highly challenging	3	21.4%
2. Challenging	3	21.4%
3. Neutral	3	42.9%
4. Not so challenging	2	14.3%
5. Not challenging at all	0	0%

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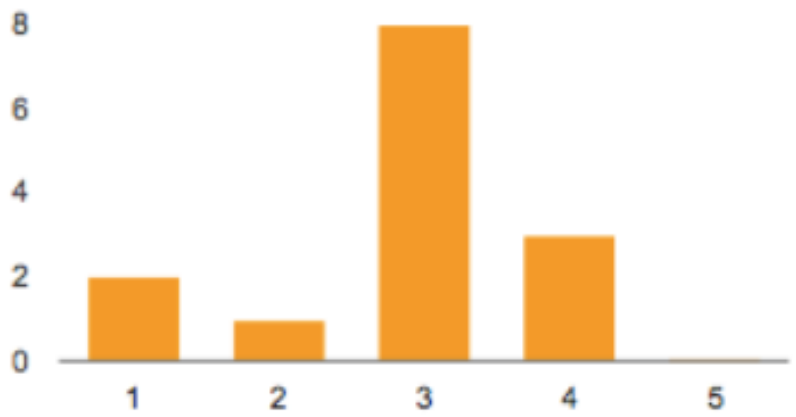
Q3. CAN YOU SHARE WITH US, HOW YOUR COUNTRY (EXPERTS' TEAM) EXPERIENCES THE FOLLOWING ACTIVITIES:

Extracting coherent information/data about other countries from published reports



1. Highly challenging	2	14.3%
2. Challenging	1	7.1%
3. Neutral	8	57.1%
4. Not so challenging	3	21.4%
5. Not challenging at all	0	0%

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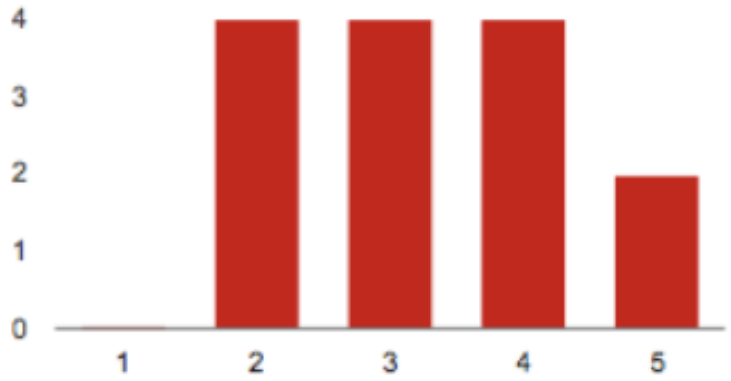
Q3. CAN YOU SHARE WITH US, HOW YOUR COUNTRY (EXPERTS' TEAM) EXPERIENCES THE FOLLOWING ACTIVITIES:

Following up on the implementation of measures and reporting on progress with national reforms



1. Highly challenging	0	0%
2. Challenging	4	28.6%
3. Neutral	4	28.6%
4. Not so challenging	4	28.6%
5. Not challenging at all	2	14.3%

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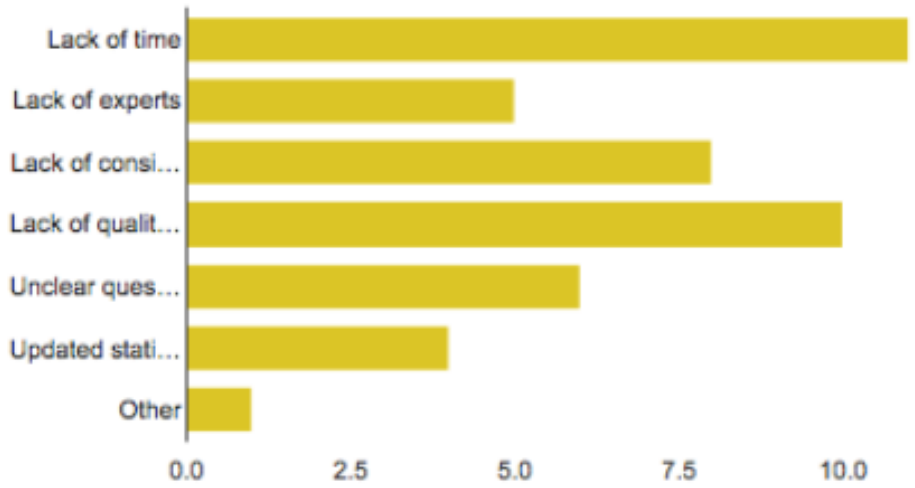
Q4. CAN YOU POINT OUT WHAT ARE IN YOUR VIEW THE MAIN CHALLENGES YOU CURRENTLY MEET IN THE PREPARATION OF THE REQUIRED DATA/ INFORMATION AND/ OR IN THEIR VERIFICATION?



1. Lack of time	11	78.6%
2. Lack of experts	5	35.7%
3. Lack of consistency check	8	57.1%.
4. Lack of quality check	10	71.4%.
5. Unclear questions and/or questions on reforms' progress	6	42.9%
6. Updated statistics	4	28.6%
7. Other	1	7.1%

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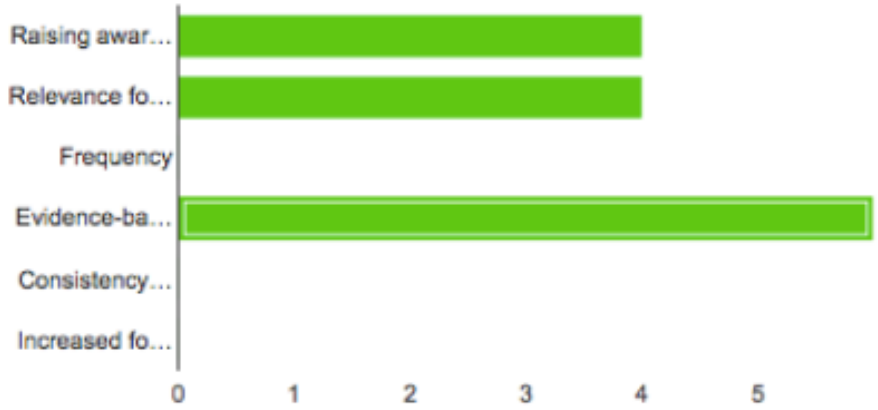
Q5. CAN YOU POINT OUT ON WHICH ASPECTS OF THE REPORTS YOU SEE FURTHER ROOM FOR IMPROVEMENT

ERA Progress report



1. Raising awareness	4	28.6%
2. Relevance for R&I policy making	4	28.6%
3. Frequency	0	0%
4. Evidence-base and policy analysis	6	42.9%
5. Consistency in MS reporting	0	0%
6. Increased focus	0	0%

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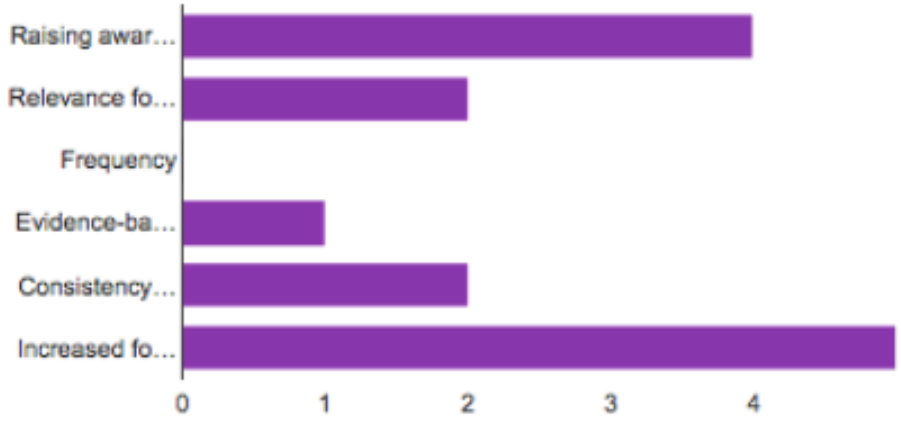
Q5. CAN YOU POINT OUT ON WHICH ASPECTS OF THE REPORTS YOU SEE FURTHER ROOM FOR IMPROVEMENT

Science, Research and Innovation Performance in the EU



1. Raising awareness	4	28.6%
2. Relevance for R&I policy making	2	14.3%
3. Frequency	0	0%
4. Evidence-base and policy analysis	1	7.1%
5. Consistency in MS reporting	2	14.3%
6. Increased focus	5	35.7%

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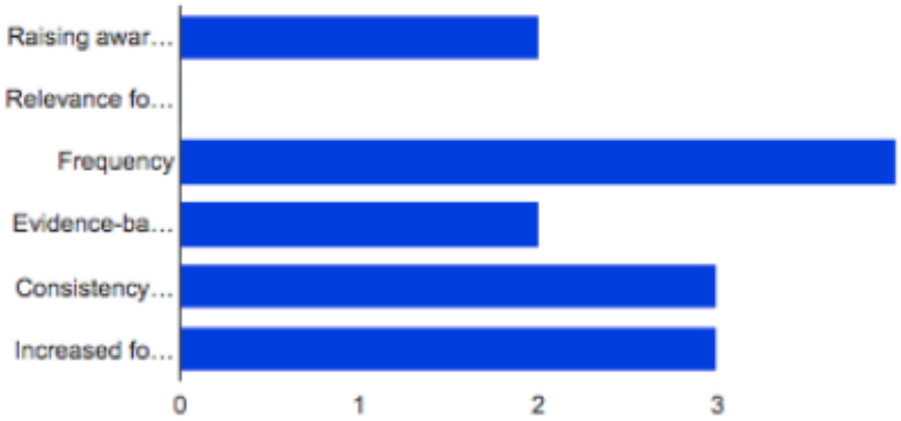
Q5. CAN YOU POINT OUT ON WHICH ASPECTS OF THE REPORTS YOU SEE FURTHER ROOM FOR IMPROVEMENT

RIO Country reports



1. Raising awareness	2	14.3%
2. Relevance for R&I policy making	0	0%
3. Frequency	4	28.6%
4. Evidence-base and policy analysis	2	14.3%
5. Consistency in MS reporting	3	21.4%
6. Increased focus	3	21.4%

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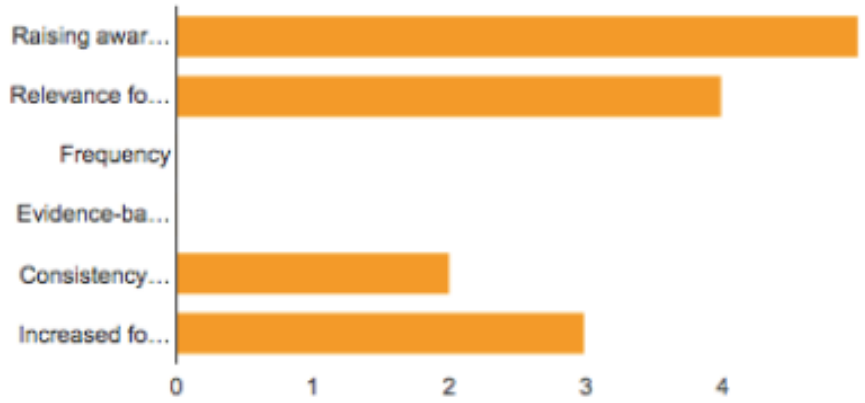
Q5. CAN YOU POINT OUT ON WHICH ASPECTS OF THE REPORTS YOU SEE FURTHER ROOM FOR IMPROVEMENT

Report on the implementation of the International Cooperation Strategy



1. Raising awareness	5	35.7%
2. Relevance for R&I policy making	4	28.6%
3. Frequency	0	0%
4. Evidence-base and policy analysis	0	0%
5. Consistency in MS reporting	2	14.3%
6. Increased focus	3	21.4%

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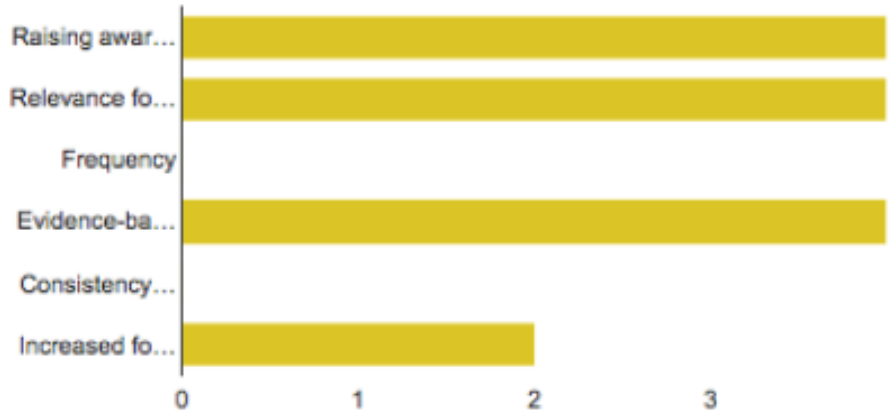
Q5. CAN YOU POINT OUT ON WHICH ASPECTS OF THE REPORTS YOU SEE FURTHER ROOM FOR IMPROVEMENT

EU Industrial R&D Investment Scoreboard



1. Raising awareness	4	28.6%
2. Relevance for R&I policy making	4	28.6%
3. Frequency	0	0%
4. Evidence-base and policy analysis	4	28.6%
5. Consistency in MS reporting	0	0%
6. Increased focus	2	14.3%

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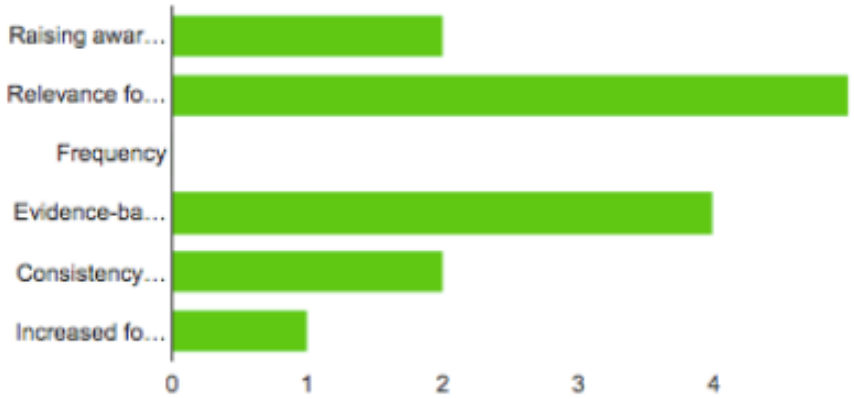
Q5. CAN YOU POINT OUT ON WHICH ASPECTS OF THE REPORTS YOU SEE FURTHER ROOM FOR IMPROVEMENT

European Innovation Scoreboard



1. Raising awareness	2	14.3%
2. Relevance for R&I policy making	5	35.7%
3. Frequency	0	0%
4. Evidence-base and policy analysis	4	28.6%
5. Consistency in MS reporting	2	14.3%
6. Increased focus	1	7.1%

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Q6. IS THERE A PARTICULAR LACK/GAP/MISSING ELEMENT? WHERE POSSIBLE, PLEASE ALSO MENTION TO/IN WHICH REPORT, AS AN EXAMPLE?

- It would be useful to add some indicator regarding the mobility researchers
  Data analysis of "brain drain"

- It will be useful o take on board the national/regional innovation strategies for smart specialisation

- The RIO Country report lacks focus and comparability between Member States and can be subjective, from the point of view of the consultants employed by the EC to do the report

- It applies to all reports - more focus on economic and social impacts (valorisation) of political measures

- A headline output indicator is still missing

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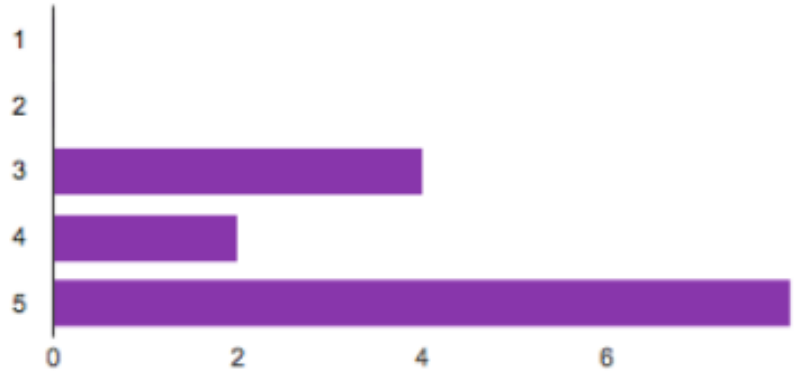
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

The rationale for information requests should be clear ex-ante



1. Not important at all	0	0%
2. Not really important	0	0%
3. Neutral	4	28.6%
4. Important	2	14.3%
5. Very important	8	58.9%

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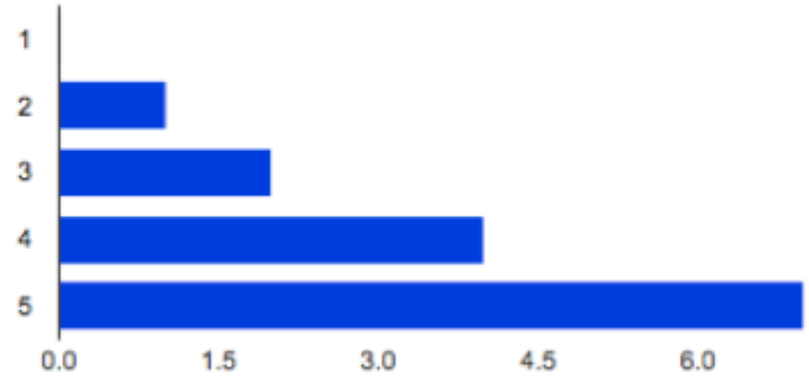
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

The reporting flow within the Commission should be optimised



1. Not important at all	0	0%
2. Not really important	1	7.1%
3. Neutral	2	14.3%
4. Important	4	28.6%
5. Very important	7	50%

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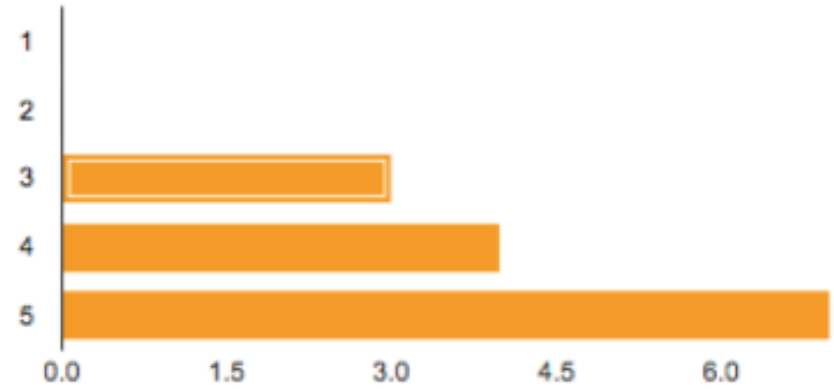
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

Existing sources of information should be checked for consistency



1. Not important at all	0	0%
2. Not really important	0	0%
3. Neutral	3	21.4%
4. Important	4	28.6%
5. Very important	7	50%

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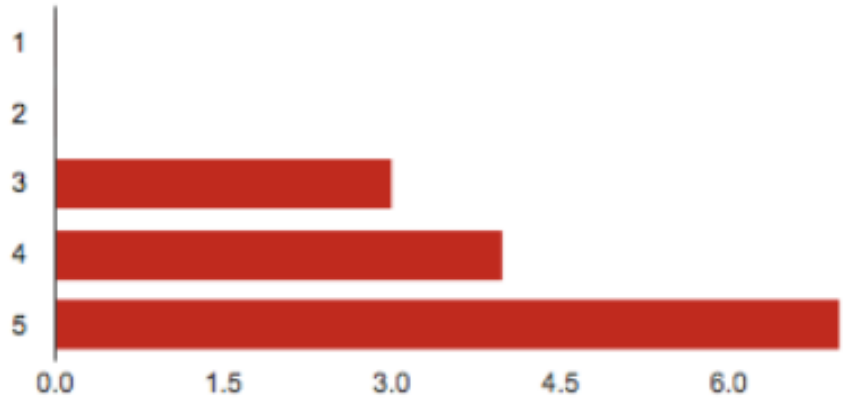
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

Focus should be set on reports that are useful for policy practice



1. Not important at all	0	0%
2. Not really important	0	0%
3. Neutral	3	21.4%
4. Important	4	28.6%
5. Very important	7	50%

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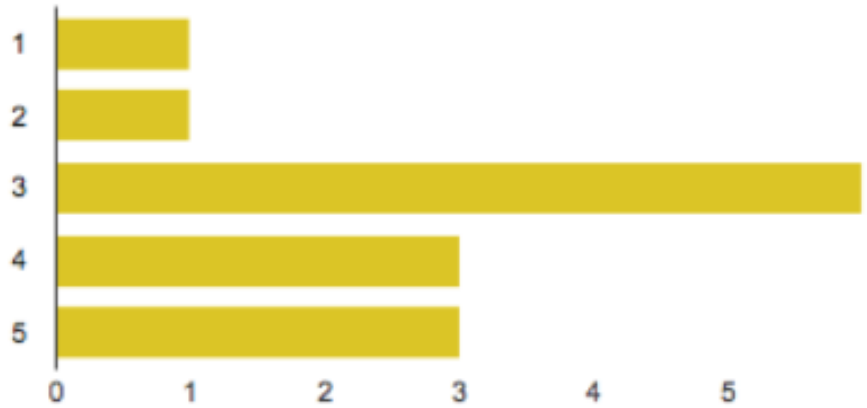
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

The timing/ frequency of reports should be reviewed



1. Not important at all	1	7.1%
2. Not really important	1	7.1%
3. Neutral	6	42.9%
4. Important	3	21.7%
5. Very important	3	21.7%

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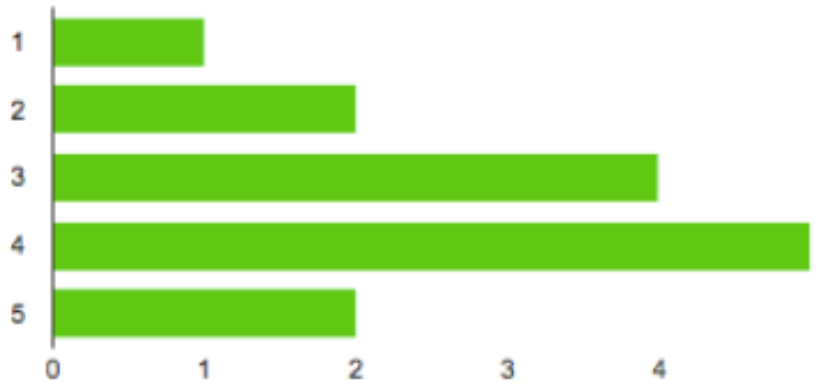
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

Open data and open access should be mandatory



1. Not important at all	1	7.1%
2. Not really important	2	14.3%
3. Neutral	4	28.6%
4. Important	5	35.7%
5. Very important	2	14.3%

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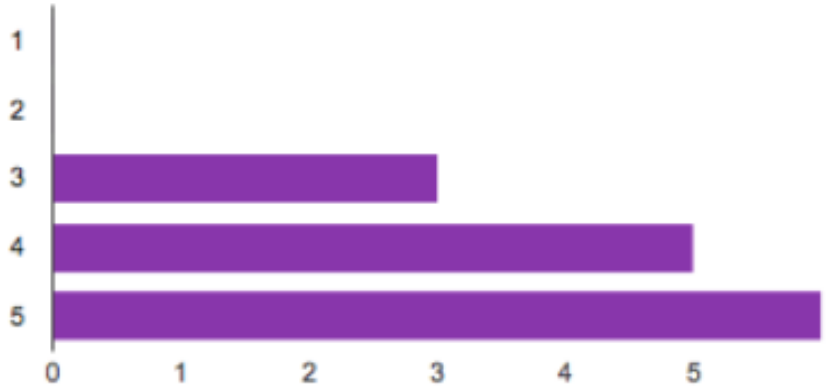
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

Increased visibility and transparency



1. Not important at all	0	0%
2. Not really important	0	0%
3. Neutral	3	21.4%
4. Important	5	35.7%
5. Very important	6	42.9%

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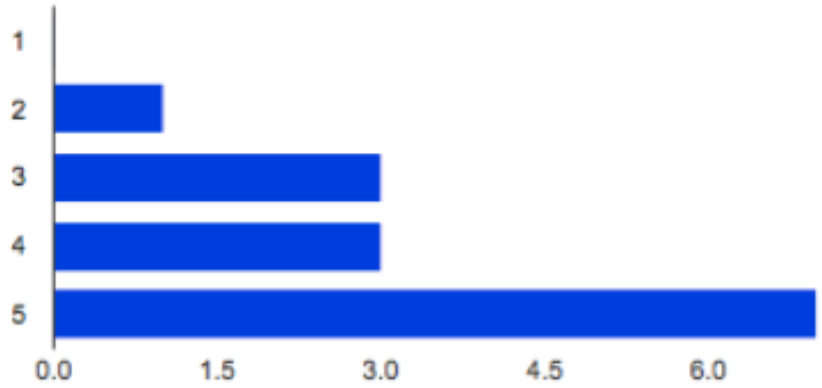
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

Quality checks



1. Not important at all	0	0%
2. Not really important	1	7.1%
3. Neutral	3	21.4%
4. Important	3	21.4%
5. Very important	7	50%

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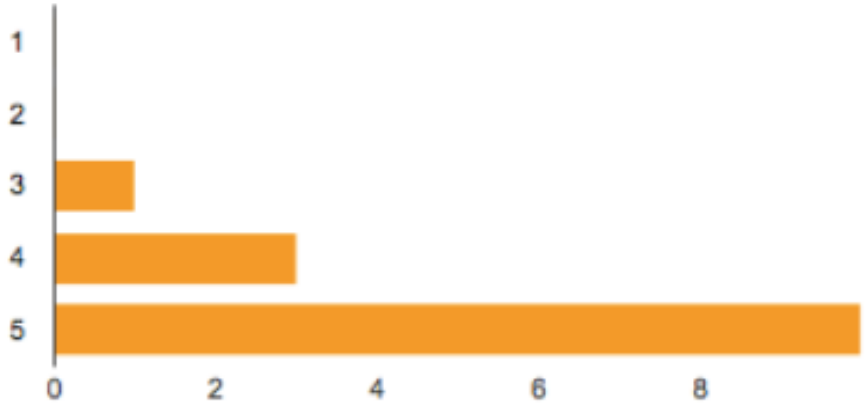
Q7. WHAT DO YOU THINK SHOULD BE THE GUIDING PRINCIPLES FOR THE EXERCISE ON THE STREAMLINING OF MONITORING AND REPORTING?

Increased coherence among the reports



1. Not important at all	0	0%
2. Not really important	0	0%
3. Neutral	1	7.1%
4. Important	3	21.4%
5. Very important	10	71.4%

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Q8. DO YOU AGREE OR NOT TO THE FOLLOWING PROPOSALS FOR INCREASED STREAMLINING:

	I agree	*I do not agree*	*No opinion*
i) Improvements to the reporting burden:			
Further harmonisation/ standardisation of surveys	93%	0%	7%
Digitalisation of the reporting process to facilitate (pre)filling	79%	21%	0%
Better timing and early warning	86%	7%	7%
Improved feedback loop to Member States as regards the information and data collected	86%	0	14%
ii) Improvements to the reports:			
They should raise awareness on the importance of R&I	79%	0%	21%
They should present timely and fully backed evidence	100%	0%	0%
They should ensure sound policy analyses	86%	0%	14%
More open access and open data increase the transparency and potential for reuse of these data	86%	0	14%
Better outreach toward different stakeholders is a must	43%	28%	28%
"Smart benchmarking" will permit to account for countries' differences and bring increased relevance for national use	71%	22%	22%

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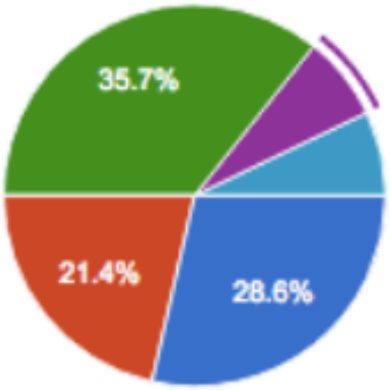
DEMOGRAPHY

Your role in the organisation



1. Senior Management	4	28.6%
2. Management	3	21.4%
3. Researcher	1	7.1%
4. Strategy/Policy function	5	35.7%
5. Specialist/Expert	1	7.5%

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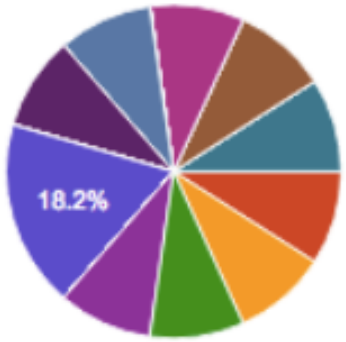
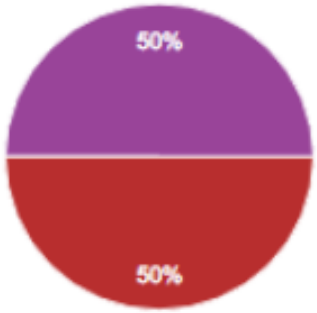
DEMOGRAPHY

Country of origin EU members



Belgium	1	9.1%
Bulgaria	1	9.1%
Croatia	1	9.1%
Cyprus	1	9.1%
Ireland	2	18,2%
Lithuania	1	9.1%
Malta	1	9.1%
Romania	1	9.1%
Sweden	1	9.1%

Country of origin associated to European R&I programmes



Norway	1	9.1%
Switzerland	1	9.1%

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CONCLUSIONS:

- Increased motivation for the MS
- Decreasing duplication-Increasing quality
- Need of evidence-based policies
- Enhanced engagement of stakeholders
- More Transparency and clarity
- Coherence and collaboration

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The Rationale

1) Find efficiency gains for RTD

- Opportunity to clarify the identity and purpose in the policy cycle of the multiple reports we produce on R&I
- Achieve efficiency gains and synergies in the launch of surveys to MS
- Clarify reporting rationale

2) Ensure better informed policy-making

- In-depth and systematic exploitation of information/ data in a structured manner
- Enriched input into European Semester/national policy making

3) Reduce reporting burden to Member-States

- MS have been raising concerns about the multiple and overlapping requests for information addressed to them by us on R&I which cause administrative burden
- The Joint EC/OECD STI Questionnaire is a first step towards less reporting burden

4) Priority for the Maltese Presidency

- Council conclusions are a relevant opportunity

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Two key aspects

- Monitoring and reporting is an essential element of **evidence based policy making**
- Streamlining should increase **efficiency and impact** of reporting process, by tackling two aspects:
  - ✓ Reporting burden on Member States
  - ✓ Number and types of reports produced and how they are used in policy making

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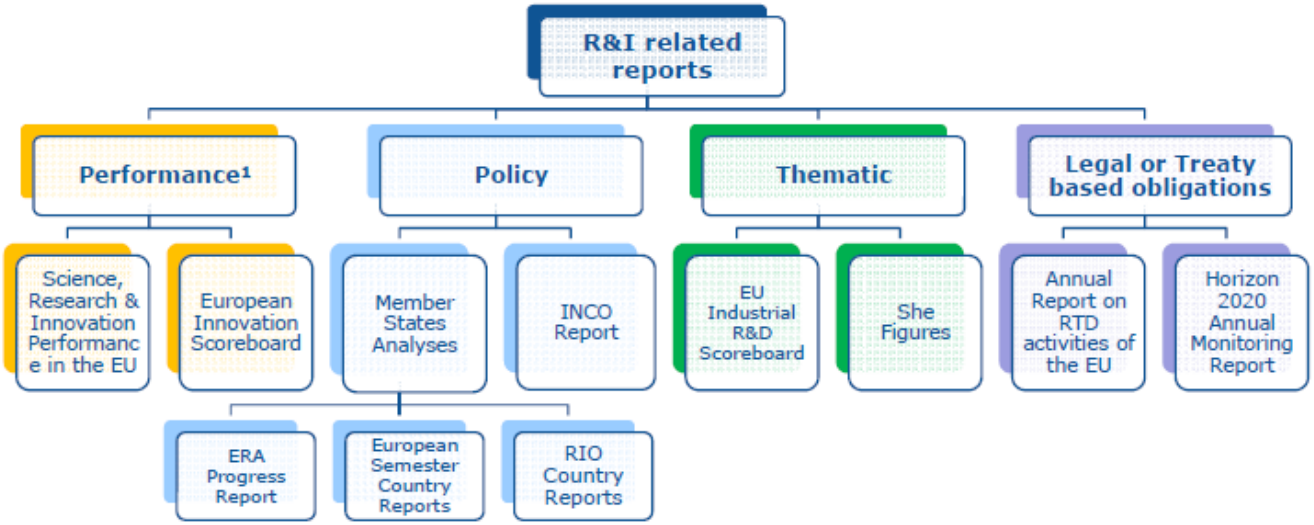
Current categories of R&I reports



Examples of reports on R&I issues from other organisations:

- OECD: OECD STI Outlook; OECD STI Scoreboard
- IMF: IMF Fiscal Monitor, Policies for Innovation and Growth
- World Bank: World Development Report
- World Economic Forum: Global Competitiveness Report

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¹ Including also Eurostat Annual Report on Europe 2020 Progress

"How much" do we *really* ask from MS?

Based on RTD internal survey of requests to MS

R&I-related Report	Requests
Science, Research and Innovation Performance in the EU	NO
RIO Annual Country Reports	YES[1]
Annual Report on RTD activities of the EU (Article 190)	NO
European Innovation Scoreboard	NO
ERA Progress Report	YES[2]
European Industrial R&D Investment Scoreboard	NO
SHE Figures	YES[3]
Horizon 2020 Annual Monitoring Report	NO
International Cooperation Strategy Report	YES[4]
European Semester Country Reports	YES[5]

[1] MS are asked to validate/check on the draft version
[2] MS are asked to check/validate "country snapshots", and an external contractor interviews them to collect qualitative information on ERA Progress
[3] Through the Helsinki group on Gender in Research and Innovation and statistical correspondents
[4] Through the Strategic Forum for International Science and Technology Cooperation (SFIC)
[5] Notably through country missions

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Progress so far and next steps

	Improvements to reporting	Improvements to reporting burden
Progress so far	Previous "R&I Country profiles" were abolished **and replaced by focussed infographics** Focusing of RIO reports Revamped ERA Progress Report	EC/OECD Joint Survey on STI Policies More concise RIO reports require less quality control ERA Progress Report requires less input from MS
Next steps	New reports should be based on clear guiding principles	Cooperation with OECD to **further optimise survey and its exploitation**

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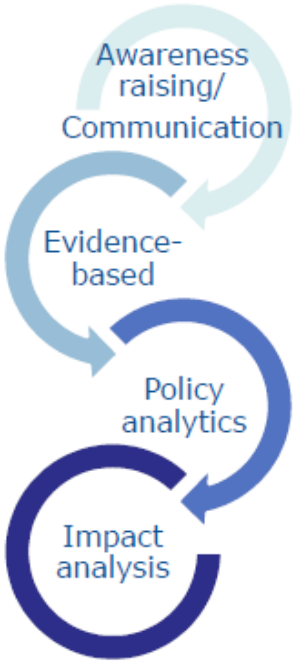
Key principles for streamlining



- Does the report contribute to raise awareness towards relevant R&I issues at the national and/or EU level? How does it fit in the overall RTD Strategy?
- Is the report based on sufficient evidence to derive policy implications?
- Does the report rely on analytical methods that can be used to support public policy problem-solving and decision processes?
- Is the estimation and/or measurement of impacts duly considered in the report?

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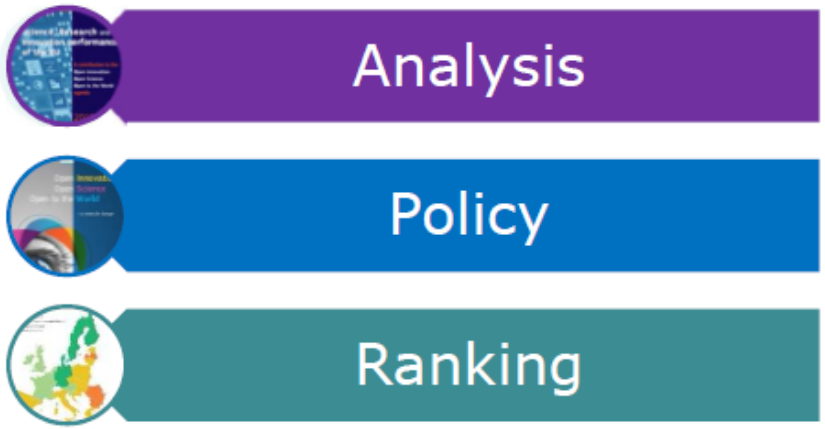
European Commission

A possible *new* approach



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Analysis

- **In-depth indicator-based analysis** of science, research and innovation performance of the EU and its MS, including insight into the underpinning factors and drivers
- Providing extensive evidence of performance and drivers to feed into EC and MS policy-making
- Currently: *Science, Research and Innovation Performance of the EU*

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Example:

Science, Research and Innovation Performance in the EU

- ***2-yearly*** **publication**
- **Section 1: Indicator-based analysis** of the EU's science, research and innovation performance
- **Section 2: In-depth analysis** on key policy relevant aspects such as the links between innovation and productivity or innovation and job creation

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Policy

- Reporting on **policy developments** at EU and MS level
- To check whether developments correspond to stated objectives/actions plans/strategies and to serve as inspiration for further reforms
- Currently: *ERA Progress Report, She figures, INCO report, Semester Country Reports, RIO reports*

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Example: EU policy

i) ERA Progress Report

- ***2-yearly* publication** on progress towards achieving ERA
- The ERA Progress Report 2016 will reflect significant improvements, not only on methodology and indicators but also on the way results will be presented.
- In particular, the progress of MS towards completing ERA will be measured,

ii) INCO Strategy Report

- ***2-yearly* publication**
- Reports on the implementation of the different aspects of the International Cooperation Strategy adopted in 2012

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Example: National policy

RIO Country Reports

Previous editions	*2016 edition*
Purpose: monitoring of national R&D policies, including how they contribute to achieve ERA and Innovation Union	Contributes to wider policy learning and JRC thematic studies
Form: comprehensive document (100+pp), describing recent (3 year window) policy developments, R&D centered	20pp., focuses on 2016 policy developments; takes a broader approach to innovation; challenge-driven narrative (challenges, policy responses, and their impact)
Use and review: comparable across 28 MS, validated by the MS (fact checking, accuracy)	As before

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Ranking/Benchmarking

- ***Scoreboard type ranking*** to offer easy to understand and quick comparison on specific aspects of performance
- Easy to communicate with high potential for awareness raising
- Currently: *European Innovation Scoreboard*, *Industrial Scoreboard*

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Examples:

i) European Innovation Scoreboard

- ***Annual* publication**
- Snapshot/ Descriptive Ranking of the EU and Member States' innovation performance, as well as that of key international competitors ("***naming and shaming*" report**)
- Indicator-based identification of the strengths and weaknesses of MS on the basis of important innovation drivers

ii) EU Industrial R&D Investment Scoreboard

- ***Annual* publication**
- Overview of the top R&D investing companies in the world, the amounts they invest in R&D and their evolution

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Outstanding issues

- How to further **reduce reporting burden** for Member States?
- Optimal **architecture** of reporting landscape?
- How to **disseminate** reports to increase impact?
- How to make reporting **more useful** for Member States?

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Thank you very much for your attention

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