



Finland – Research Infrastructure: Fact sheet

1. Is there a National Roadmap for RI in place?		
Yes	No	In planning
x		

Source: Data derived from InRoad Consultation on RI (2017).

2. Link to the roadmap
http://www.aka.fi/globalassets/awanhat/documents/firi/tutkimusinfrastruktuurien_strategia_ja_tiekartta_2014_en.pdf [Last access: 09/2017].

Source: Data derived from InRoad Consultation on RI (2017).

3. RI definition deviates from ESFRI RI definition (If yes, please check RI definition in the Annex).	
Yes	No
	x

Source: Data derived from InRoad Consultation on RI (2017).

4. Players and their responsibilities in the national RM procedure						
	Responsibility for RM	Decision-making	Funding	Scientific evaluation	Economic evaluation	Research policy and societal evaluation
Finish Research Infrastructure Committee Members: <ul style="list-style-type: none"> Ministry of Education and Culture Ministry of Economic Affairs and Employment Ministry of Health and Welfare Universities (rectors or vice-rectors of relevant universities are members) Chair of 	x	x	x		x ¹	x

¹ The RI are asked to present the estimated budget for the next 5 years. The FIRI Committee evaluates whether the budgets are in line with the host organisation's strategic plans.



Rectors' Conference of Finnish Universities of Applied Sciences						
<ul style="list-style-type: none"> • Research institutes (Directors of relevant Research institutes) • Research Councils of the Academy of Finland 						
Academy of Finland ²	(x)		(x)			
International Experts				x	x	
Research Institutes, Universities, University Hospitals, Universities of Applied Sciences			x			
Ministries			x			

Source: Data derived from InRoad Consultation and additional documents provided through the Consultation on RI (2017).

5. Steps and Actions in the national RM Procedure		
Step	Action	Responsible actor
1	Planning/ Preparation of Guidelines	Research infrastructure Committee and its secretariat
2	Call	Academy of Finland and Research infrastructure Committee secretariat
3	Landscape analysis	Research infrastructure Committee and its secretariat
4	Mapping	
5	Eligibility Check	Research infrastructure Committee and its secretariat
6	Science-driven Evaluation	International Experts
7	Economic evaluation	International Experts (FIRI Committee
8	Evaluation of societal relevance	International Experts

² The FIRI- Committee is one of the decision-making bodies of the Academy of Finland and has the mandate to decide on roadmaps and funding. The Academy of Finland provides a secretariat for the FIRI Committee. Therefore, the Academy of Finland itself does not have direct responsibility for roadmapping or funding.



9	Decision	Research infrastructure Committee and its secretariat ³
10	Validation	

Source: Data derived from InRoad Consultation on RI (2017).

6. Criteria of the decision-making process in the RM procedure		
Eligibility criteria	Evaluation criteria	Feasibility criteria
<p>A RI must:</p> <ul style="list-style-type: none"> • provide potential for world-class research and scientific breakthroughs, • be of broad national interest and enhance the international impact, • have a long-term plan for scientific goals, maintenance, financing and utilisation, • be used by several research groups/users for high-quality research, • be open and easily accessible to researchers, industry and other actors, • have a plan for access to and preservation of collected data and/or materials, • be extensive enough so that individual groups cannot manage them on their own, • introduce new cutting-edge technology (if relevant). 	<p>For RI which are in operation or designing or implementation phase⁴:</p> <ol style="list-style-type: none"> 1. Scientific quality and potential 2. Open access and utilisation 3. Relevance to the strategies of host institutions 4. National and international relevance 5. Feasibility and Sustainability <p>(for detailed information see link to document⁵)</p>	<p>The feasibility of the project is assessed on the basis of the technical, institutional (e.g. form of ownership, terms of use or membership) and personnel requirements during the whole life cycle of the RI:</p> <p>Planning costs</p> <p>Investment costs:</p> <ul style="list-style-type: none"> • Construction/Building (incl. manpower) • Acquisition of real estate • Special technical equipment • Supply/construction of devices and equipment <p>Operating costs:</p> <ul style="list-style-type: none"> • Personnel costs (e.g. operation, maintenance, user support) • Material costs (incl. membership fees or other payment of contributions to organisations) • Costs of running the premises (rent, electricity) • Other noteworthy investments (replacement purchases) required to keep the research infrastructure and equipment on an adequate level, reflecting the state-of-the-art <p>Decommissioning costs:</p> <ul style="list-style-type: none"> • Costs of closing down the business and conservation of the resources developed

Source: Data derived from InRoad Consultation and additional documents provided through the Consultation on RI (2017).

³ The secretariat prepares and presents the decisions, the FIRI Committee decides.

⁴ At the moment there is only one set of criteria that is used for all RI, whether they are in the designing phase or in operation. It is planned to separate criteria for RI at different life- cycles.

⁵http://www.aka.fi/globalassets/30tiedepoliittinen-toiminta/firi/firi_national_criteria_ri_2017.pdf [Last access: 02/2018].



7. Towards harmonisation and synchronisation of RM Procedures		
The respondents are interested in...	...an exchange of experience for the following topics.	...increased coordination for the following topics.
Involved players and responsibilities		
Planning and design of RM		
Inventory/landscape analysis		x
Evaluation procedures	x	
Strategic decision-making	x	
Timing of national and European RM	x	
Life cycle management	x	x
RI funding instruments	x	
Monitoring and evaluation of RI	x	x
Prioritisation of RI	x	

Source: Data derived from InRoad Consultation on RI (2017).

8. Timelines and Life-cycles: Publication and updates
<p>Finland's first Roadmap was published in 2009 and last updated in 2014: "Finland's Strategy and Roadmap for Research Infrastructures 2014–2020".</p> <p>http://www.aka.fi/globalassets/awanhat/documents/firi/tutkimusinfrastruktuurien_strategia_ja_tiekartta_2014_en.pdf [Last access: 07/2017].</p> <p>The Roadmap will be updated every five years.</p> <p>Finland is in the mid-term evaluation process of the national roadmap. RI are asked to show their action plans. Results will be finalised early next year (2018).</p>

Source: Data derived from RM, Desk Study, ESFRI Homepage.

9. Main purposes of the national RM on RI
<ul style="list-style-type: none"> • An identification of scientific needs and existing gaps responding to the changing R&D and socio-economic demands • A (bottom-up) list of the scientific user community on desired RI⁶ • An inventory of existing RI • A tool supporting and monitoring the implementation of RI • A guide with strategic RI priorities for setting research policy priorities • A list of strategic priorities, which are foreseen for funding • A planning instrument to prepare for the negotiations at European (ESFRI) and international levels

Source: Data derived from InRoad Consultation on RI (2017).

⁶ In Finland the host organisation applies the RI for the roadmap and the organisations select the RI they want to commit. Therefore, the process is not entirely bottom-up.



10. Organisation and main indicators for funding of RI			
	Planning	Construction	Operation
National budget	x	x	x
European Fund for Strategic Investments (EFSI)			
European Structural and Investment Funds (ESIF) managed at national level		x ⁷	
Regional budget			
ESIF managed at regional level			
Research funding agencies	x	x	
Research Performing Organisations	x	x	x
European Investment Bank			
Horizon 2020	x	x	
Others			

Source: Data derived from InRoad Consultation on RI (2017).

11. Responsible Organism(s) for RI Funding
<ul style="list-style-type: none"> Academy of Finland through competitive project funding (everything else but maintenance), membership fees Universities through basic funding (maintenance etc.) Research Institutes that covers basic funding (maintenance etc.) University hospitals that cover basic funding (maintenance etc.) Universities of applied sciences that cover basic funding (maintenance etc.) Ministries through ear-marked one-time investment and more long time funding

Source: Data derived from InRoad Consultation on RI (2017).

12. RI Funding Sources							
Research Infrastructure Life-cycle	Concept Phase	Design Phase	Preparation Phase	Construction/ Implementation Phase	Operation Phase	Termination Phase	Others (e.g. upgrade, repurposing)
Funding source	1. National budget; 2. RPO	1. National budget; 2. RPO; 3. H2020	1. National budget; 2. RPO; 3. H2020	1. National budget; 2. RPO; 3. H2020	1. RPO	1. RPO 2.. National budget 2. RPO	1. National budget; 2. RPO; 3. H2020
Funding	- Annual	- Annual	- Annual	- Annual	-RPO	-RPO	- Annual

⁷ Have been used in some parts of Finland (Lapland).



instrument	RI funding calls	RI funding calls; - H2020 calls	RI funding calls; - H2020 calls	RI funding calls; - H2020 calls	budget funding	budget funding - Annual RI funding calls	RI funding calls; - H2020 calls
Responsible funders/funding bodies	- Academy of Finland; - RPOs	- Academy of Finland; - RPOs; - EC	- Academy of Finland; - RPOs; - EC	- Academy of Finland; - RPOs; - EC	- RPO	- Academy of Finland; - RPOs	- Academy of Finland; - RPOs; - EC
Covered costs	- all, but running only RPOs	- all, but running only RPOs	- all, but running only RPOs	- all, but running only RPOs	- personnel running costs	-	-
Period of time covered (years)	up to 3	up to 5	up to 5	up to 5	-	-	-

Source: Data derived from InRoad Consultation on RI (2017).

13. National Operational Program Information		
Total amount (EU amount and National amount)	All Programs (€M)	8,421,9
	Programs with ERDF (€M)	2,568,6
EU amount	All Programs (€M)	3,749,8
	Programs with ERDF (€M)	789,1
Thematic objective 1 (Research & Innovation)	Total funds (€M)	386,7
	ERDF (€M)	309,4
Investment category - ERDF	058. Research infrastructure and innovation (public) (€M)	64,4
	059. Research infrastructure and innovation (private and scientific parks) (€M)	5,7

Funding information of research infrastructures covering the period 2014-2020 gather inputs from the consultation survey, as well as from the Open Data Portal for European Structural and Investment Funds from the European Commission (<https://cohesiondata.ec.europa.eu/> [Last access: 07/2017]) and the Operational Programmes, for the categories of investment 058. and 059. (dedicated to research infrastructures) (http://ec.europa.eu/regional_policy/en/atlas/programmes/ [Last access: 07/2017]).

14. Details on national funding mechanisms
<ul style="list-style-type: none"> Funding decision in Finland takes into account the country's strategic priorities as well as the strategies of host organizations that include also the local perspective; It is difficult to give a very specific answer, but in general Finland tries to see that e.g all the so called strategic funding Instruments (profiling funding of the Universities, Finnish centers of excellence funding and RI funding) are synchronized; Finland is not currently exploring or planning any new or additional instruments or mechanisms to fund RI.

Source: Data derived from InRoad Consultation on RI (2017).

15. Changes of funding schemes of RI



InRoad has been funded by the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 730928.



Finland does not plan to change the current funding scheme of RI.

Source: Data derived from InRoad Consultation on RI (2017).



InRoad has been funded by the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 730928.



synchronising research infrastructure roadmapping in Europe