



Ownership and Know-how FIRI Roadmap Call 2020

Ulla Ellmén, Science Adviser

Strategy for National Research Infrastructures in Finland 2020–2030

– Creativity, Renewal and **Knowledge** on a Sustainable Basis

Strategic development areas

- Responsibility and sustainable development
- Long-term perspective and dynamism
- Ownership and know-how
- Digital platforms and data
- Open access and collaboration
- Wide and versatile impact

FIRI
Roadmap
Call 2020



Ownership and know-how as one of the strategic development areas

Ownership

The ownership of each research infrastructure shall be clear, and the owners shall know the characteristics of good ownership as well as the rights, obligations and roles of the owner and implement them in their own activities.

Know-how

The key competence needs required for the construction, upgrading and maintenance of research infrastructure services have been defined at national level.

A national recommendation on the conditions for effective research infrastructure personnel and management has been published.

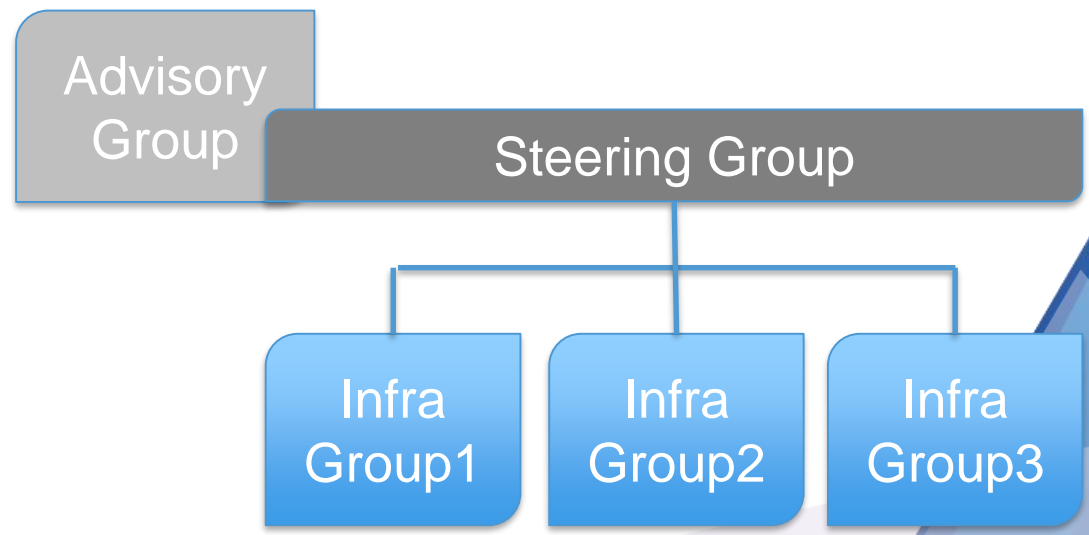
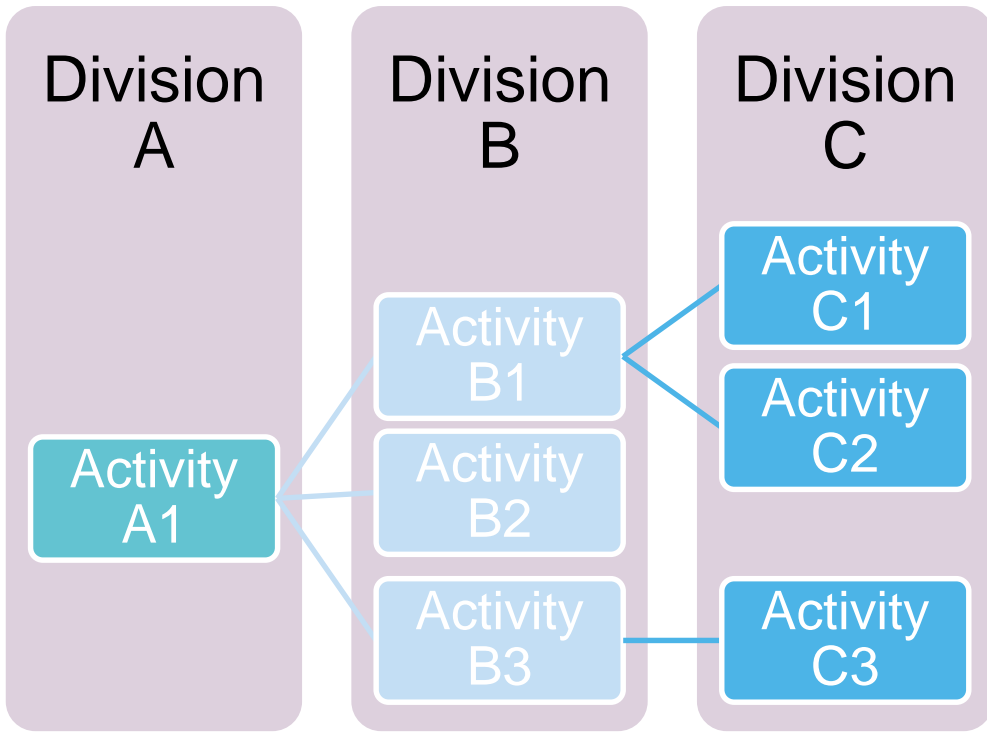
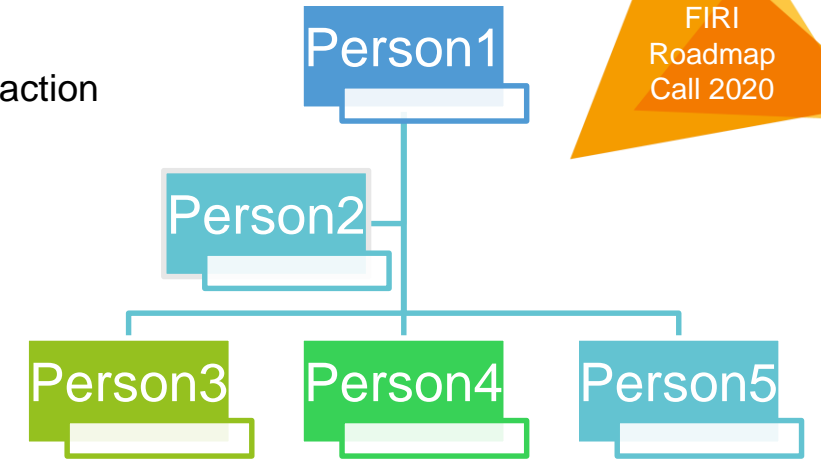
The owners of research infrastructures shall create the conditions for good research infrastructure management and human resources policy.

Guiding questions (tbc) for an action plan of ownership, know-how and organisational structure of RI

- Who owns the research infrastructure (RI)? Is the ownership of the RI clear? How is the ownership reflected in action and functionality of the RI?
- What is the organisational structure of the RI? Are the management, resources and division of labour for maintenance, services and user support appropriate and well-planned?
- Explain competence of the director, the key persons and the other personnel of the RI. How many (%) of them have permanent jobs?
- How the key competence needs required for the construction, upgrading and maintenance of RI services, are responded to (e.g. career paths, training)?

Organisational structure of RI

- RI should have a clear organisation > maximal effectiveness in use, and credibility in action
- Professional leading of RI <= demanding, serious business
- Supporting activities (user support, advisory groups etc.)
- Updated titles for RI personnel will be available in online services:
Director, Vice-Director, Managing personnel, Technical personnel, Other personnel



Lifecycle and minimum criteria for ownership, know-how and organisational structure of RI



Design and Preparation Phases	Implementation and Operation Phases	Termination Phase
How about ownership in design and preparation phases?	How about ownership in implementation and operation phases?	How about ownership in termination phase?
How about organisation in design and preparation phases?	How about organisation in implementation and operation phases?	How about organisation in termination phase?
How about know-how and competence needs in design and preparation phases?	How about know-how and competence needs in implementation and operation phases?	How about know-how and competence needs in termination phase?

DRAFT

```

def _operation == "Mirror_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
elif _operation == "Mirror_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

#selection at the end -add back the deselected mirror
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.active = mirror_ob
print("Selected" + str(modifier_ob.name))
mirror_ob.select = 0
Done = bpy.context.selected_objects[0]
bpy.data.objects[mirror_ob.name].select = 1

```

**Comments and questions
are welcome!**