

Roadmap

Training and e-Infrastructure for Research Software Development

CodeRefinery act as a hub for FAIR (Findable, Accessible, Interoperable, and Reusable) software (open by design) practices in the Nordic countries, namely in *Iceland, Denmark, Norway, Sweden, Finland* and *Estonia*. CodeRefinery aims at involving **students, researchers, research software engineers from all disciplines and [national e-infrastructure partners](#)**.

The goal of CodeRefinery is to advance FAIRness of Software management and development practices so that research groups can collaboratively develop, review, discuss, test, share and reuse their codes.

What do we need to do to achieve our goals?

Milestone: CodeRefinery materials are taught by volunteers

Milestone: CodeRefinery Community Conference (Conference that would be co-organized with RSE nordics or Carpentries such as Regional CarpentryCon)

Milestone: CodeRefinery e-infrastructure deployed on EOSC-Hub

Milestone: we deliver X workshops in 20YY

Milestone: we measure the impact of the project and adoption of FAIR principles through survey

Milestone: publish onboarding mechanism for volunteers and institutions

Milestone: include better social sciences and humanities

→ need to have training materials that do not require write access to CodeRefinery organization

→ need to attract volunteers to teach CodeRefinery materials

- Clearly explain the benefit of becoming involved in CodeRefinery
 - Define a CodeRefinery chart for describing CodeRefinery community engagement activities and benefits:
 - To engage with CodeRefinery, one has to accept our Code of Conduct (Similar to Carpentry Code of Conduct i.e. we are nice to each other)
 - Here we should list some benefit for becoming CodeRefinery members:
 - being added/referenced as CodeRefinery helper/instructor on CodeRefinery.org,
 - Educational development with the possibility to:
 - Become Certified Carpentry instructor
 - Become Carpentry Instructor Trainer
- This benefit can be granted only to those who accept to take part to CodeRefinery activities (helper, instructor for CodeRefinery workshops)
- networking opportunities with the possibility to:
 - Strengthen cross-disciplinary network (RSEs, researchers from various disciplines in the Nordics)
 - Get support for developing local RSE communities (experience from other CodeRefinery members)

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- need to have instructor guides and on-boarding mechanism
- need to be clear on how to develop new lessons (lesson template, etc.) and on which basis they can be added in the CodeRefinery lesson portfolio.

KPI table with quantified numbers:

KPI description	# start-project	# mid-project	# end-project
# of instructors capable of teaching CodeRefinery training material	10	20	40
# of trained researchers	About 500	+ 200 (=700)	+200 (=900)
# of repositories in source.coderefinery.org	About 350	+150(=500)	+250(=750)
# of contributors to CodeRefinery and Carpentries lesson materials	About 57	+50(=107)	+50(=157)
# of engagement activities by stakeholder group, by engagement type, and by topic	Presentations: 14 Events: 1 Publications: 7 (https://coderefinery.org/outreach/)	Researchers & students: Professors, department chair:	Researchers & students: Professors, department chair: