

# EnRich 2021

## Team Information

2 - 8 October 2021, Zwentendorf, Austria

Picture of vehicle:



Name of vehicle:

Fenrir & Packbot

Picture of team leader:



Name of team leader:

Matthias Nieuwenhuisen

Team Name:

Team FKIE

Team E-mail:

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Logo:



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Team Description:

Team FKIE focuses on research that makes UGV abilities accessible even for untrained operators. Therefore, we need two components: intuitive Human-Robot-Interfaces (HRI) and intelligent assistant functions. While the intuitive HRI ease up the direct interaction between human and

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unmanned systems, intelligent assistant functions automate certain kinds of tasks but keep the human in the loop. This reduces the burden of routine jobs and enables one operator to easily control one system.

We address different topics to be able to design real UGV systems to evaluate our methods with the actual user.

These topics include developing semi-autonomous grasping methods to deal with all kinds of objects or creating detailed maps in real-time from 3D (e.g. LIDAR) or CBRN sensors to enhance the localization of the UGV and the situational awareness of the operator.

Sponsors:

Selection of scenario:

- Exploration
- Manipulation
- Search and Rescue

Proof of citizenship: A copy of team leader passport will do (will not be published)

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