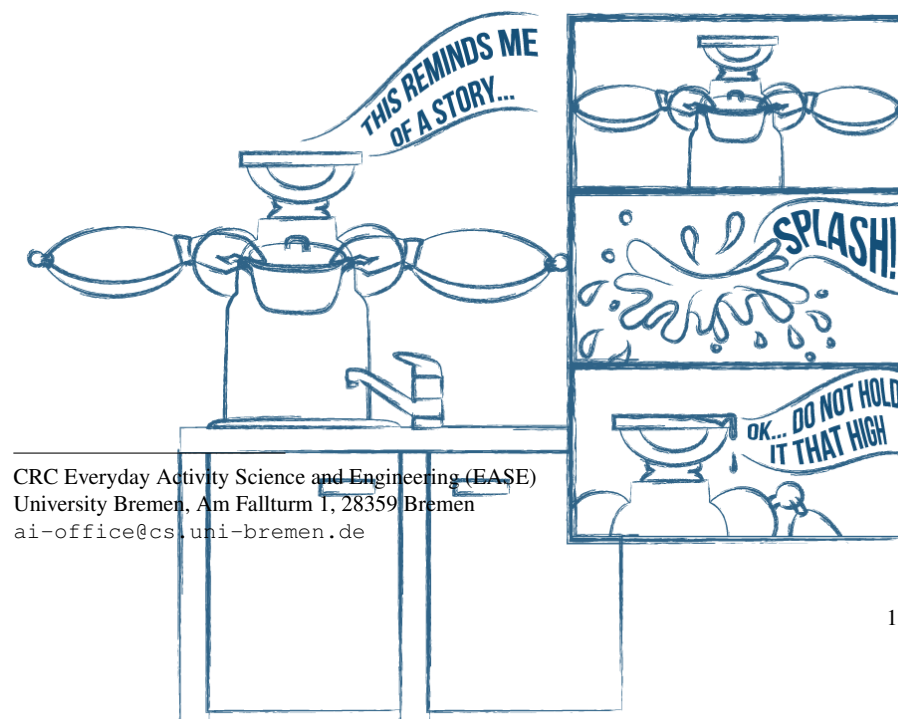


# NEEM Generation Checklist

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## Abstract

This document will present the NEEM generation checklist which should be referred by creator of new NEEM.





## Chapter 1

### NEEM Checklist

This chapter focuses on the initial checklist for NEEMs creation.

#### 1.1 NEEM Checklist

- Make sure if tf data is available in correct format
  - Check if tf data is provided as individual json documents not as the list/array of json documents.
  - Check if coordinate system is right handed
  - Check if correct tf tree is presented in the data
  - Check if joint rotation is provided in quaternion
  - Check if position data is logged in meters
  - etc..
- Make sure if triple data is available in correct format
  - Check if triple data is provided as an array of json document
  - Check if correct SOMA concepts used from NEEM-narrative part
  - Validate triple data with NEEM validation script??
  - etc..
- Check if agent meshes and urdf files are available
- Check if agent owl file corresponding to urdf needs to be created

- Check if required kinematic information is provided in owl file pointing to correct urdf file name
- Check if environment meshes and urdf files are available
- Check if environment owl file corresponding to urdf needs to be created
  - Check if required kinematic information is provided in owl file pointing to correct urdf file name
- Check if agent and environment meshes with urdf files are rendered properly with KnowRob in rviz
- Check if correct agent and environment meshes are uploaded to NEEM-hub
- Check if correct agent and environment urdf files are uploaded to NEEM-hub
- Test current neem experiment data (tf, triple, meshes and urdfs) locally with KnowRob ,
- Upload correct tf and triple data to NEEM-hub ??

## **Chapter 2**

### **NEEM Data**

This chapter focuses on the data format expected for process of NEEMs creation. At first, we will provide the basic overview how NEEM should look like and then will describe ways to create NEEMs compatible with current openEASE and KnowRob .

#### **2.1 NEEM Structure**

#### **2.2 NEEM Creation Process**