#### **CONTEX 2018**

UAVs and gamma spectrometry

Reykjavik, 26.09.2018



#### Introduction

- 1986: Started my life @ Nesodden.
- 2011: My first meeting with NRPA.
- 2018: CONTEX, Madrid -> Iceland
- 2046: ??



## The beginning

 NKS project on UAV's spearheaded by Magnus Gårdestig – Univeristy of Lindköping



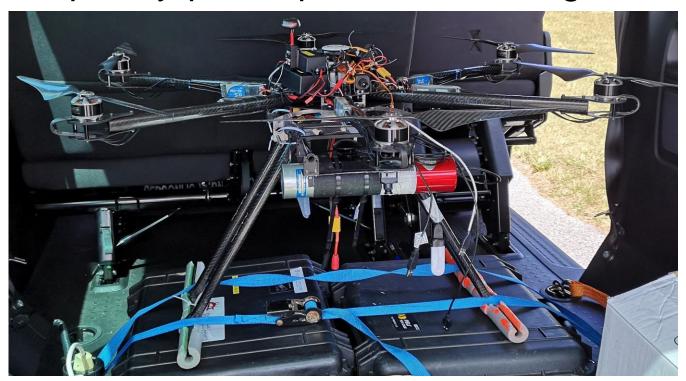


### **Preparations for CONTEX 2018**

Not everything goes according to plan!



- DJI Wookong UAV
- 2 inch Nal detector + Osprey MCA
- Raspberry-pi computer + Wifi dongle





- DJI Phantom UAV
- Kromek GRZ-1 detector
- Raspberry-pi computer + Wifi dongle



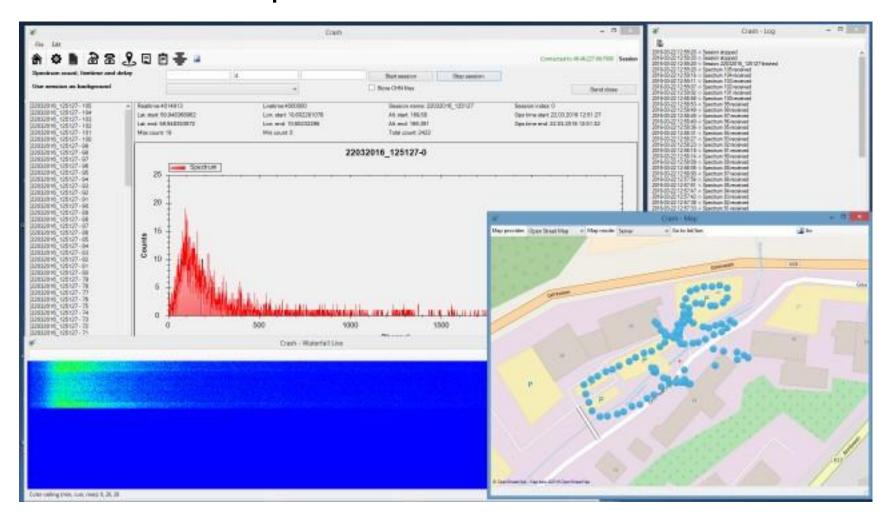


- ICE.net router
- Wifi router
- Screens and computer





Self-developed software



# CONTEX 2018 day 0





### **CONTEX 2018 day 1**

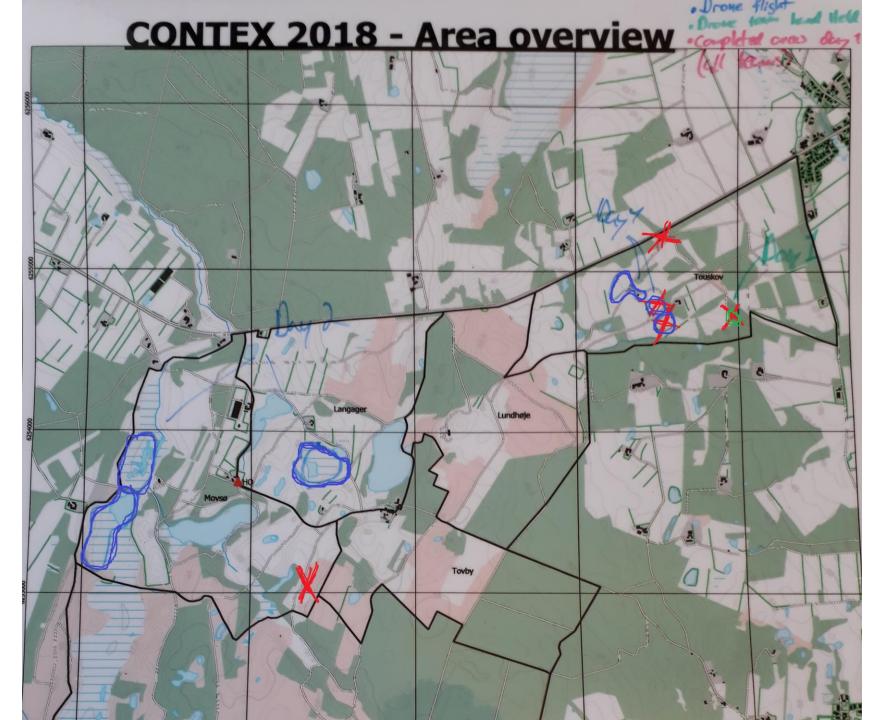
- Assigned as foot team.
- Flights of DJI Wookong
- Hectic!
- Test run of DJI Phantom



## CONTEX 2018 day 2

- More flights
- Tackling civilians





### CONTEX 2018 summary

- Drones are your friends!
- How will we use UAV's in the future?
  - Mapping hard to reach areas
  - Quick area scans
  - Exploring hot areas



### Challenges

- Weather conditions
- Alternating heights and undergrowth
- Detecting multiple nuclides
- Aviation authorities
- Efficient use



#### What did I learn?

- Be prepared for anything!
- Roll with it!

