



sUAS Data IG P14

Useful Session Links

- Today's notes: <https://tinyurl.com/y4z8q5bt>
 - Please add you name
 - And help taking notes is always welcome
- Remote:
<https://global.gotomeeting.com/join/379515829>
- Group [charter page](#):
<https://tinyurl.com/z5gf4zr>
- Group [Gdrive](#) :
<https://tinyurl.com/vyf4juxx>



sUAS data IG P14: Overview

Session Agenda

1. Room Intros
2. Quick Intro to the IG
3. Update from LANDRS Hackathon2
4. WG Charter Generation - Unconference style

Introduction to sUAS data IG

- Started in 2016
 - Case Statement: <https://tinyurl.com/z5gf4zr>
 - sUAS are increasingly a common platform for data collection across **industry and academia** and **many domains**.
 - This nascent domain presents **unique challenges and opportunities** that will **benefit from global common/community discussion** and engagement
- [1]





Introduction to sUAS data IG

PRE FLIGHT

1. Science Question & Campaign Planning
2. Selection of Platform & Sensors
3. Sensor Integration on Platform
4. Pre-Flight Check & Sensor Calibration

FLIGHT

5. Mission Planning & In Field
6. Flight & Data Collection
7. Download & Stream Data

POST FLIGHT

8. Post Processing
9. Secondary Data Products & Analysis
10. Fusion & Integration
11. Reuse



Introduction to sUAS data IG

Outputs to date

1. 8 meetings
2. In collaboration with ESIP: A Minimal Information Framework for Drone Data
3. [1]: *Emergent Challenges for Science sUAS Data Management: Fairness through Community Engagement and Best Practices Development* ([MDPI](#))
4. Drones4Good event at Khama Rhino Sanctuary Botswana
5. LANDRS project (ongoing)



Introduction to sUAS data IG

- **Key partner communities**
 - ESIP Drone Cluster
 - OGC UxS DWG
 - ANDS E2SIP drone community



Update from LANDRS Hackathon2



Linked-data
API for
Networked
DRoneS



Alfred P. Sloan
FOUNDATION



UNIVERSITY OF
NOTRE DAME



LANDRS Goals

Community developed foundations
infrastructure for enabling FAIR Drone
data

1. Dereferencable Ontology
2. OpenAPI specification
3. Onboard API
4. Domain specific example implementations





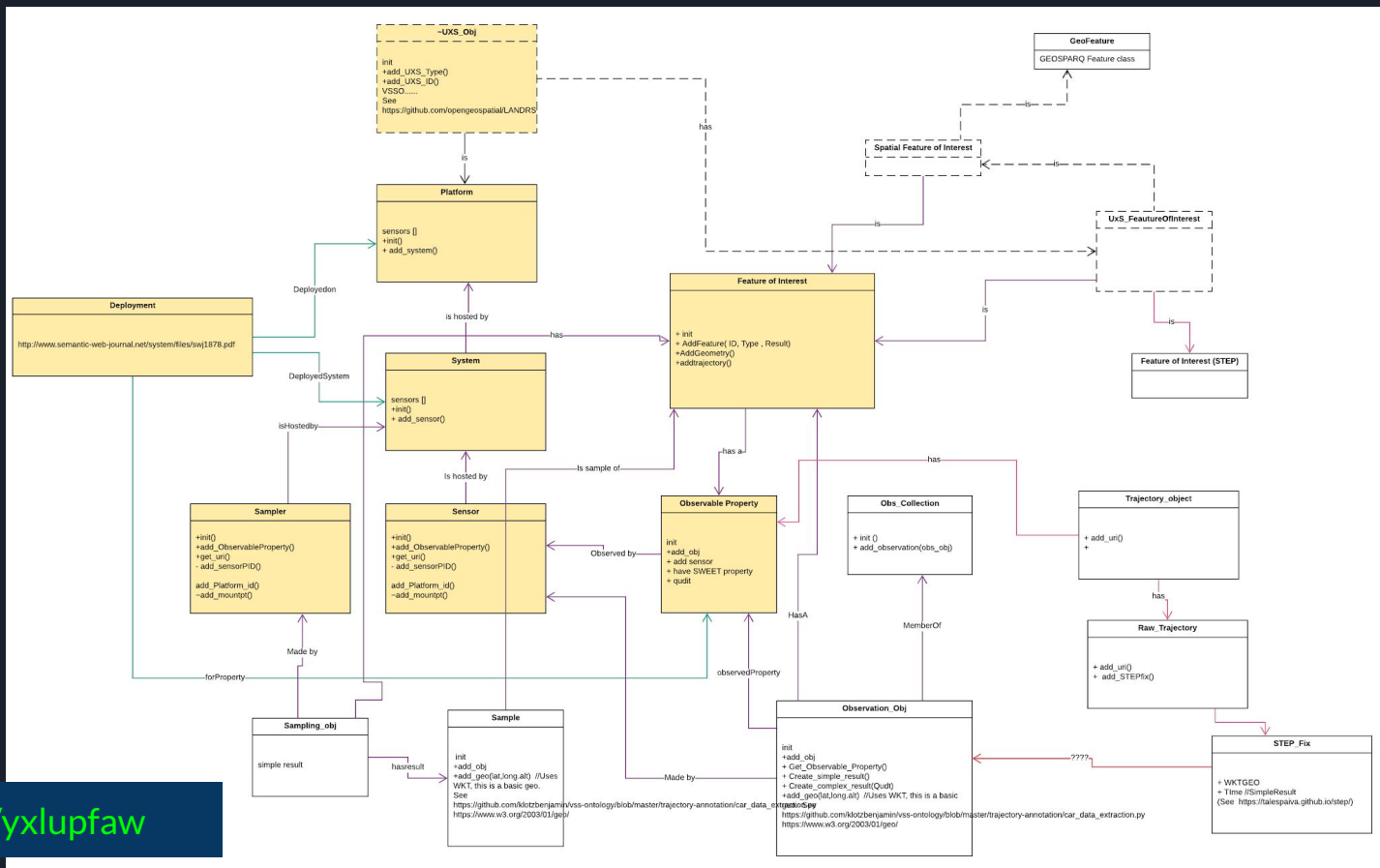
LANDRS Hack2

- 21-22 October
- University of Helsinki
- Focus:
 - PySOSA: Python API for building SOSA annotated RDF
- Links: (Post Hack Cleanup coming monday!)
 - OGC Github (primary repo):
 - <https://github.com/opengeospatial/LANDRS>
 - Gitlab (PySOSA repo):
 - <https://gitlab.com/landrs/pysosa>





LANDRS Hack2



<https://tinyurl.com/yxlupfaw>



WG case statement

RDA Working Group **Purpose:**

1. Develop clear **outcomes** and put them into **action** to create tangible progress
2. Work **openly** and transparently with respect to the community.
3. **Document** their efforts as they operate.
4. **Meet regularly** with the RDA to facilitate coordination and communication.



WG case statement

RDA Working Group Process:

1. Propose Case Statement
2. Review Case Statement
3. 12-18 months work
4. Review of outputs
5. Output recommendations endorsement by RDA (or not)

	Interest Groups	Working Groups
Membership	All RDA members can join	All RDA members can join
Duration	As long as the group is active	12-18 months
Outcomes	Possibly case statements for new WGs, coordination, communication	Concrete deliverables - "Running code", tools, standards, etc.
RDA liaisons	1 Tab member, 1 Secretariat member	1-2 TAB members, 1 Secretariat member
Review process	Community review (4+ weeks), then review by TAB (2 weeks) and Council (2 weeks)	Community review (4+ weeks), then review by TAB (4 weeks) and Council (2 weeks)



WG case statement Creation

WG Case Statement Creation Unconference Style

1. Group: write ideas (foci for the WG) on postits
2. Group review of postits
3. Group voting
4. Editing of doc



Step1: Postit ideas (foci for the WG)

Community Challenges [1]

1. Sensor use procedure
2. Operational practices
3. Analytics and Error correction procedure
4. Data and metadata data formats
5. Data and metadata provenance practices
6. Data product levels
7. Data management and analytics tools
8. Data management education

LANDRS Hack2 ideas (for example)

WG Tasks

- Drone Data Product Levels
- Assessment of MIF FAIR Data Metrics and publication for formal comment period
- Engagement with FAIR Data Matrix WG
- Collection of drone data

WG parameters:

- 12-18 months
- Creation of actional outputs



Steps 2- 4

WG Case Statement Creation Unconference Style

1. Group: write ideas (foci for the WG) on postits
2. Group review of postits
3. Group voting
4. Editing of doc

Case Statement Drafting Doc

<https://tinyurl.com/y54kkrwp>