



Emergency Management & Humanitarian Aid

Panel Results Summary
User Consultation Platform 2022: Plenary Session

Paul Dettmer – World Food Programme (WFP)

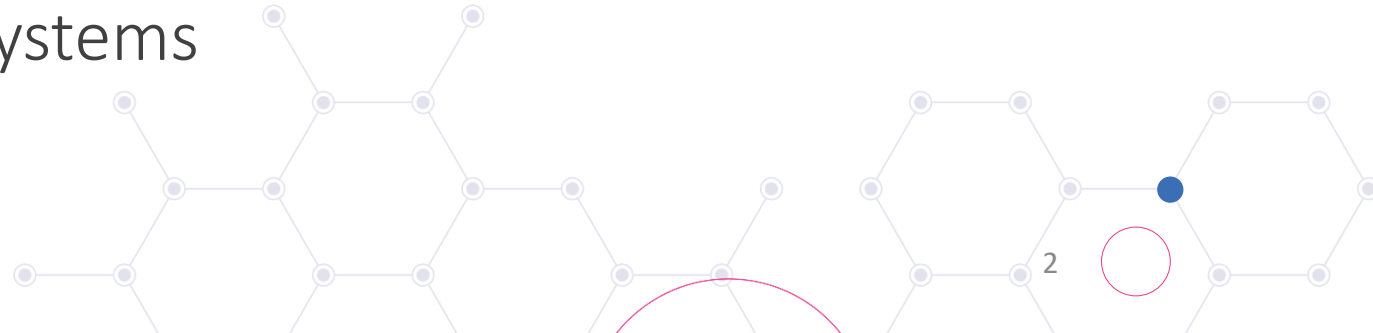
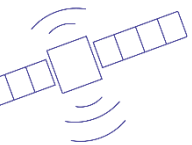
04 October, Prague



Priority applications in the segment, leveraging Space (synergies)



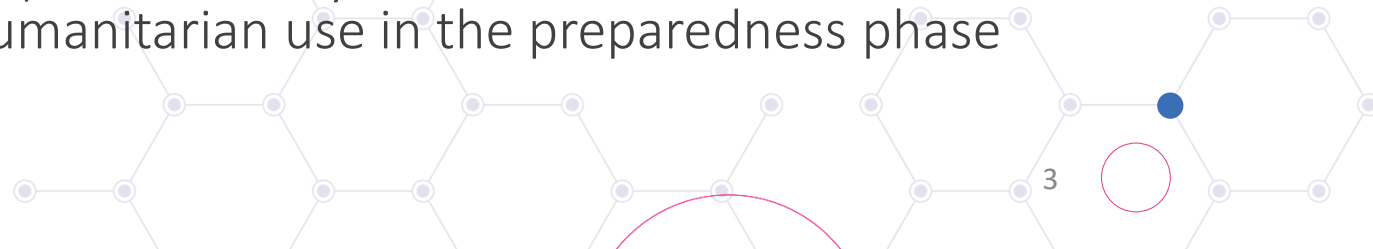
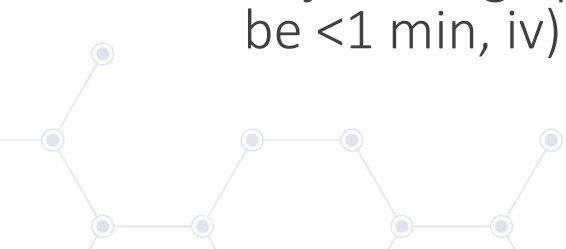
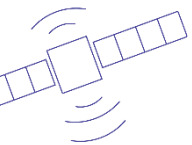
- Damage assessment and building inspection
- Monitoring of landslides and terrain deformation
- Humanitarian Aid applications (i.e. asset management in humanitarian operations and health, medicine response and coordination)
- **All applications** reflected on the need to build on integration of EO and GNSS information into legacy systems





New User Needs and Requirements

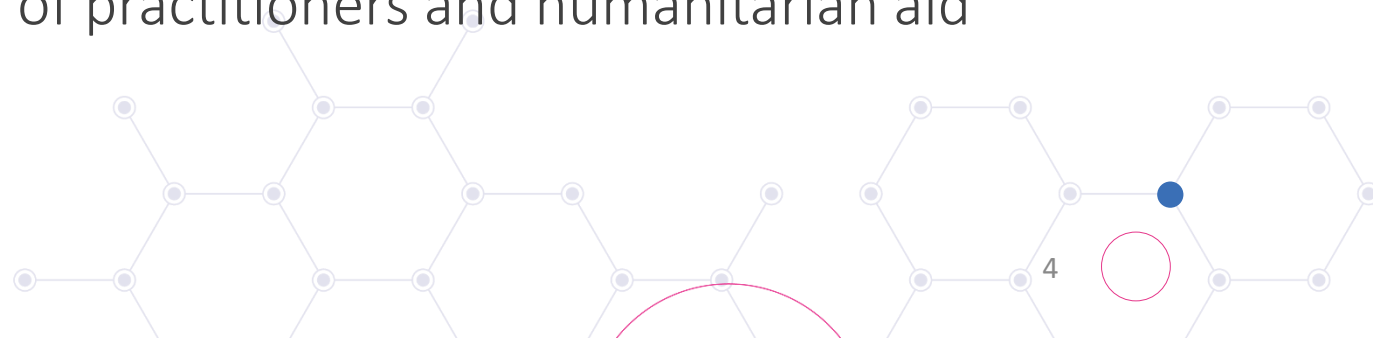
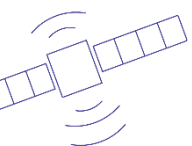
- **Transversal needs:** i) **Integration** of different sensors and technologies is a transversal need (satellite, UAV and in-situ data), ii) **Awareness** of the available data and services, iii) **use of AI** in accelerating the processing of data.
- **Landslide monitoring:** i) **High-revisit times and multi-band missions are** required, ii) permanent reflectors in forest areas (SAR), iii) Low-cost GNSS stations;
- **Damage assessment:** i) Higher accuracy for the displacements/deformations monitoring of very rigid buildings, ii) Higher spatial resolution for the detailed assessment of infrastructures;
- **Humanitarian Aid applications:** i) EO for access constraint map, ii) Need to translate **complexity** of technologies into **simple services and solutions**, iii) **Reliability** of GNSS (in terms of jamming/spoofing/ authentication), ii) Quick surveys -> Time To First Accurate Fix must be <1 min, iv) **Up-to-date imagery** for humanitarian use in the preparedness phase





Conclusions and next steps

- Attract new users into the community by creating **ready-to-use APIs, interfaces and services.**
- **Introduce community building activities:** Proposal for creating a humanitarian aid community WG that uses space data, to improve know how and raise awareness in the community.
- **Build on** already existing services (e.g. Copernicus Emergency Management Service), bringing them in the hands of practitioners and humanitarian aid actors.



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