



Dark and Quiet Skies for Science and Society II  
Implementing the recommendations

La Palma, Canary Islands, Spain

3 - 7, October, 2021

# Welcome & Introduction to the Dark & Quiet Skies Conference

Connie Walker, Conference Co-Chair;  
Chair, IAU Executive Committee on Dark and Quiet Sky Protection  
Scientist, NSF's NOIRLab

on behalf of all of the D&QS Scientific Organizing Committee  
and the 100 Working Group Members



## Welcome! And introduction...

- Advent of LEDS, their impact and the increase of Artificial Light at Night (ALAN)
- Advent of satellite constellations and their impact on science and society
- How some of the more recent challenges have been addressed in the last couple of years
  - Identifying issues, formulating recommendations, identifying pathways to implement them.
- Taking those pathways into the future

MOU1

## Slide 2

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**MOU1**

**Radio astronomy**

Connie Walker; 02.10.2021



## Working Groups of D&QS

- ALAN Working Group (WG) (21 members) (Co-Chairs: Richard Green, Costis Bouroussis, Antonia Varela, James Lowenthal)
  - Combined the D&QS (2020) workshop's WGs on Observatories, Dark Skies Oases and the Bio-Environment looking for common areas with respect to artificial light at night (ALAN) and pathway **MOU2**ard.
- Sat Con WG (74 members, 4 subgroups)
  - Astronomical Observatories (Richard Green); National Policy (Giuliana Rotola); International Policy (Andy Williams); Industry (Chris Hofer)
- Radio Astronomy WG (12 members) (Harvey Liszt and Masatoshi Ohishi)
  - Examined the impact of planned and unplanned radio emissions on astronomical observations
- A total of 100 unique individuals worked over the last few weeks to on issues they would like to present to you over the next five days; discuss your questions and incorporate your feedback.

## Slide 3

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### MOU2

#### Connie Check WGs and charges

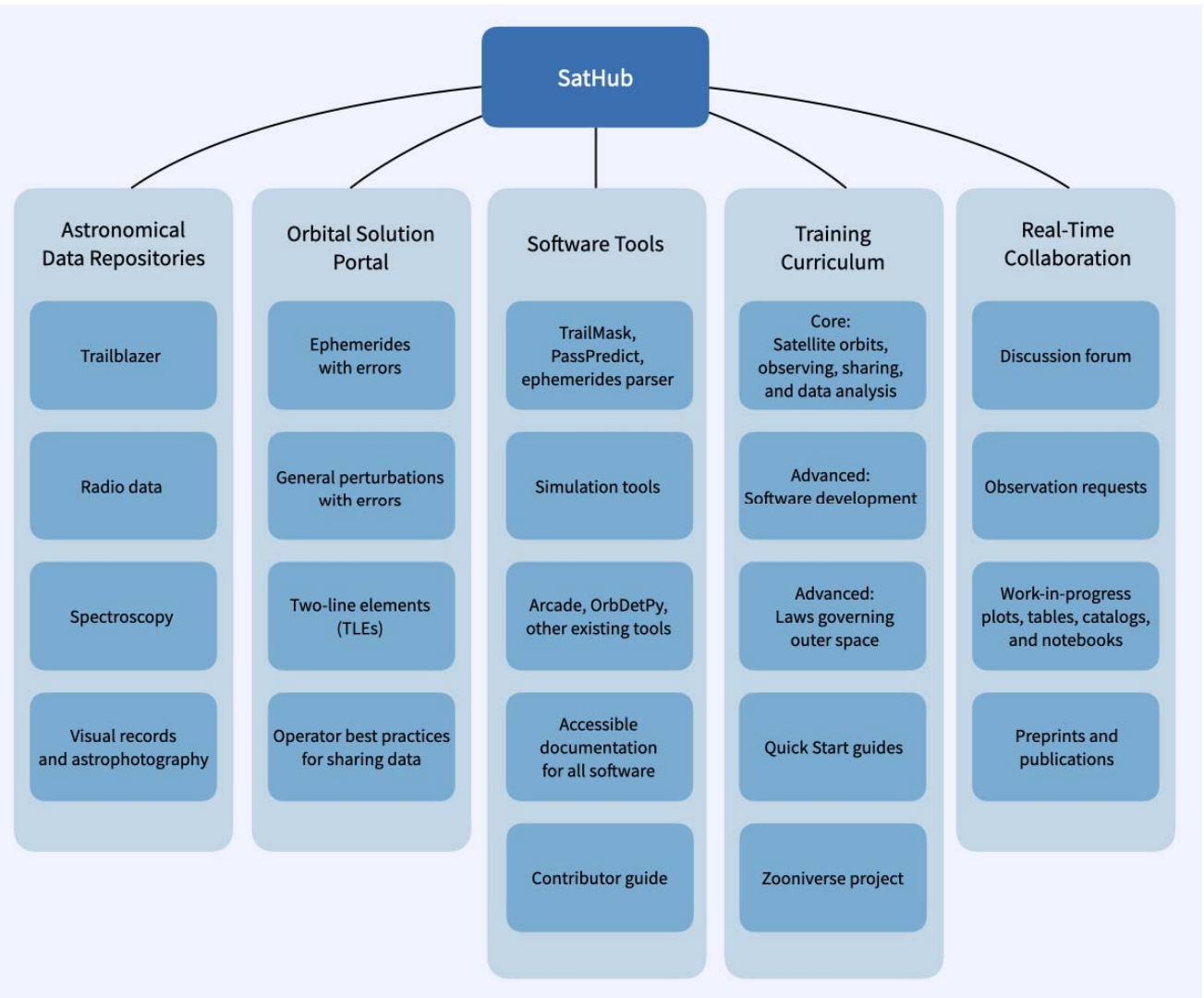
Connie Walker; 02.10.2021

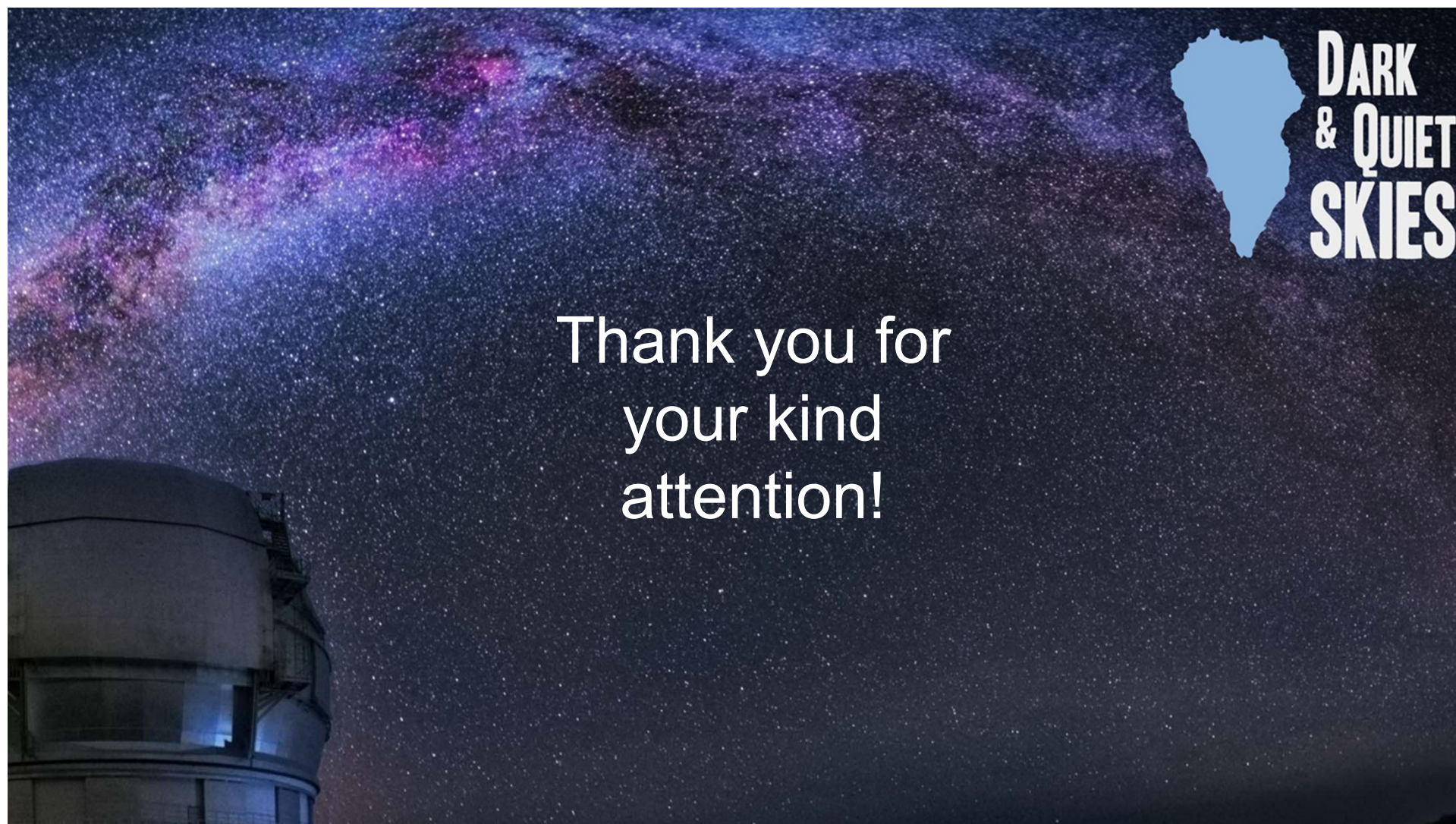


# Working toward a Possible Future

SatHub Concept Overview from SATCON2.

This diagram shows key elements needed urgently to have an effective, organized, and sustained satellite constellation observation campaign. SatHub could be hosted at the future IAU Centre.





Thank you for  
your kind  
attention!



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## EXTRA SLIDE

3 October 2021

6



## Addressing the UN Committee for the Peaceful Use of Outer Space

- 83% of the world's population lives under light polluted skies. It is therefore a global issue, whose impacts are not just limited to professional astronomy.
- Regulations adopted for protection of observation sites would also lead to benefits for the bio-environment and human health.
- Therefore, COPUOS should work toward dark skies in cooperation with organizations for the protection of the environment or dark skies, as well as with medical associations
- ALAN may interact with other stressors in the bio-environment like climate change and air pollution. COPUOS can influence decisions on a global scale.