IAU Inter-Commission B2-C1-C2 WG

Data Driven Astronomy Education and Public Outreach

Chenzhou CUI
China-VO
FOCUS SESSIONS 2016

- Large Synoptic Survey
- Cherenkov Telescope Array
- Square Kilometre Array
- Five-hundred-meter Aperture Spherical Telescope (FAST)
- ASKAP
- JWST
- Gaia & Euclid
- European Gravitational Observatory, EGO/VIRGO

Courtesy of Mark Allen
X@HOME Projects

- Crowd Computing
- but not citizen science
Data to Dome

- **IPS Data to Dome** is an initiative or project of the IPS Science Data & Visualization Task Force to make it easier to visualize scientific data in a planetarium. "Data to Dome" as a broad IPS led initiative should not be confused with "data2dome" which refers to the ESO led data standard that we consider a part of the larger Data to Dome vision.

- **ESO D2D (Data2Dome)** is an effort of the European Southern Observatory (ESO). It uses a content distribution and publishing standard aimed at bringing astronomy data seamlessly into planetarium systems real-time. This is an excellent example of project that can support the IPS Data to Dome effort.
China-VO PSP

Website platform
psp.china-vo.org

Amateur astronomer
browse online

Advanced user
review

Professional
Observation
And confirm

Report to IAU/CBAT
TOCP

Check the
suspected target

Xingming
Observatory
In Xinjiang

China-VO
Data Center

SUPERNOVA
Worldwide Telescope (WWT)

Microsoft is Open-Sourcing WorldWide Telescope in 2015

Why is this great news?
WWT @ China-VO
IAU EPO Related Bodies

- **Divisions**
  - Division C Education, Outreach and Heritage
  - Division B Facilities, Technologies and Data Science

- **Commissions**
  - C1 Astronomy Education and Development
  - C2 Communicating Astronomy with the Public

- **Offices**
  - Office for Astronomy Outreach
  - Office of Astronomy for Development

- **WGs**
  - C1: Network for Astronomy School Education (NASE)
  - C1: Theory and Methods in Astronomy Education
  - C2: Public Outreach Information Management
  - B2-C1-C2: Data Driven Astronomy Education and Public Outreach (DAEPO)
WG Objectives

- Act as a forum to discuss the value of astronomy data in EPO, the advantages and benefits of data driven EPO, and the challenges facing to data driven EPO.

- Provide guidelines, curriculums, data resources, tools, and e-infrastructure for data driven EPO.

- Provide best practices of data driven EPO.
DAEPO Ecosystem

International Astronomical Union (IAU)

- Facilities, Technologies and Data Science (Division B)
- Education, Outreach and Heritage (Division C)

Data Driven Astronomy Education and Public Outreach (DAEPO)

- Office of Astronomy for Development (OAD)
- Office of Astronomy Outreach (OAO)
- Commission B2
- Commission C1
- Communicating Astronomy with the Public (Commission C2)

Supporting Organizations:
- International Virtual Observatory Alliance (IVOA)
- American Astronomical Society WorldWide Telescope Project (WWT)
- Zooniverse
- International Planetarium Society (IPS)
<table>
<thead>
<tr>
<th>Name</th>
<th>Gender</th>
<th>Title</th>
<th>Country</th>
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Working Plans

• Enhance the visibility of the WG at various events
  – The International Symposium on Education in Astronomy and Astrobiology (ISE2A), July 3-7, 2017 – Utrecht, the Netherlands
  – IVOA Interoperability Meeting
  – ADASS conference
  – IAU GA

• The concept of “DAEPO” need to be propagated though newsletters, news reports, website portals, and various public media in different countries and in different languages.

• To provide guidelines for DAEPO, a call for best practices will be send to the global community in the coming months.
WeChat News and Feedbacks

厉害了！虚拟天文台与全球专家共谋科普教育发展

国际天文学联合会（简称IAU）跨委员会联合工作组、数据驱动的天文学科普教育（Data Driven Astronomy Education and Public Outreach, DAEPO）工作组（以下简称“工作组”）完成组建并通
Thank You!

China-VO
WeChat