

EGU2020-5359, updated on 01 Aug 2021

<https://doi.org/10.5194/egusphere-egu2020-5359>

EGU General Assembly 2020

© Author(s) 2021. This work is distributed under the Creative Commons Attribution 4.0 License.



Big Earth Data enhance the Implementation of PEEEX along the Belt and Road regions

Yubao Qiu¹, Huadong Guo¹, Jie Liu¹, Fang Chen¹, and Massimo Menenti²

¹Institute of Remote Sensing and Digital Earth, China (qiuyb@aircas.ac.cn, hdguo@radi.ac.cn)

²Department of Geoscience and Remote Sensing, Faculty of Civil Engineering, Delft University of Technology.

The Digital Belt and Road program, the DBAR, is aiming to resolve the scientific understanding of the Earth changes, and sustainable development goals along the Belt and Road regions (B&R), which was initiated in 2016, and now have been developing into its 1st phase of implementation plan after the startup phase. With a strong collaboration and common interest, the Pan-Eurasia experiment the PEEEX, and DBAR is crossed together to use the Earth observations to understanding and address the challenges for the environmental changes, especially for the Belt and Road in Asia about the changing of snow and ice, vegetation and ecosystem, disaster, urban, agriculture, water stress and etc.

With the development of the Earth Observations, either from the ground observations or the space/air borne platform, the Big Earth Data approach has been developing for addressing the societal and science challenges for the PEEEX and DBAR common domain, with the eight working group efforts, and its potential contribution to the working efforts for the PEEEX. In this talk, we will describe the Big Earth Data, societal challenges, its platform development, and more focus will be put in the snow and ice, urban, environment, disaster, and water as the priorities for the cross feralization with PEEEX.