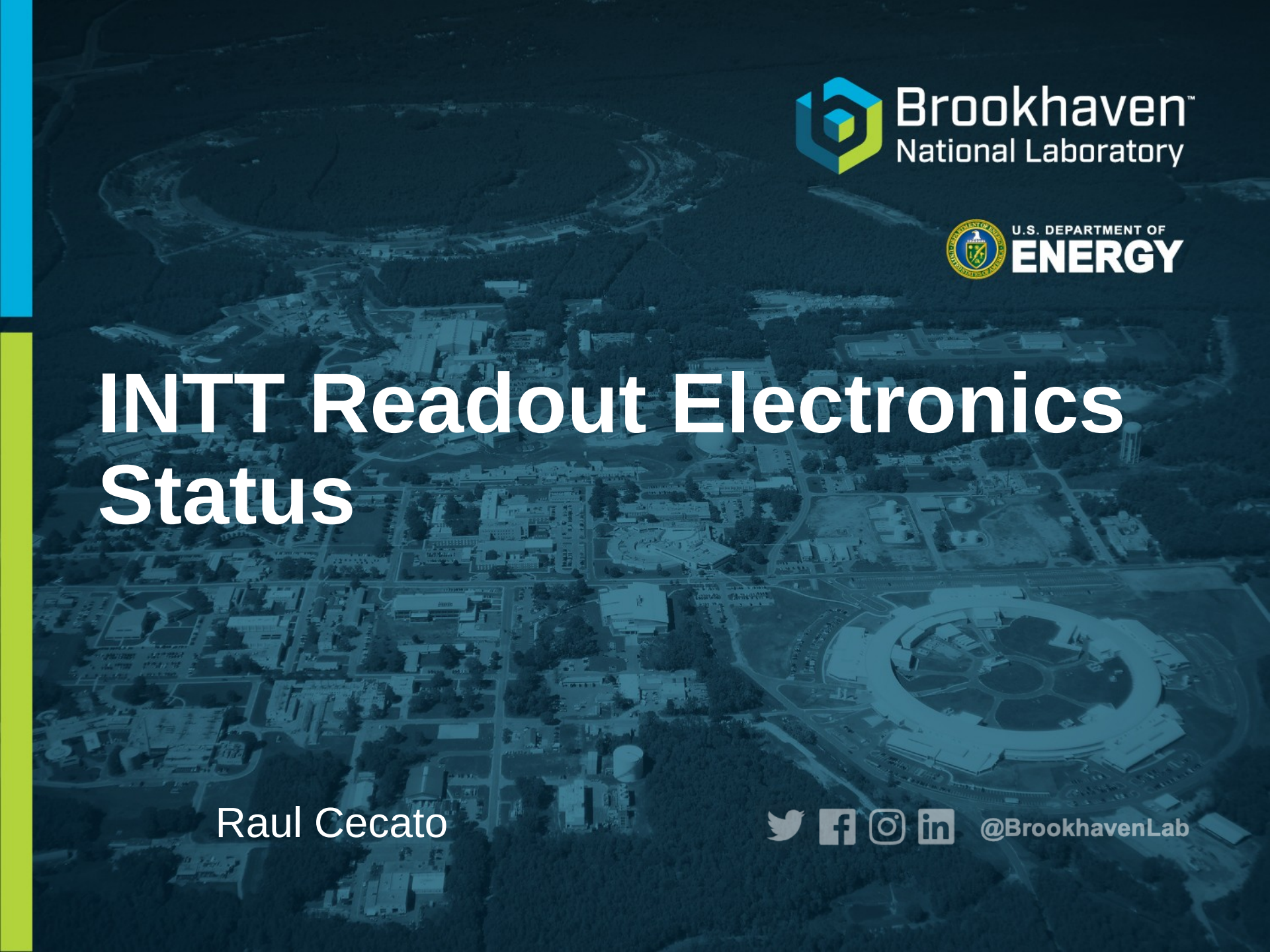
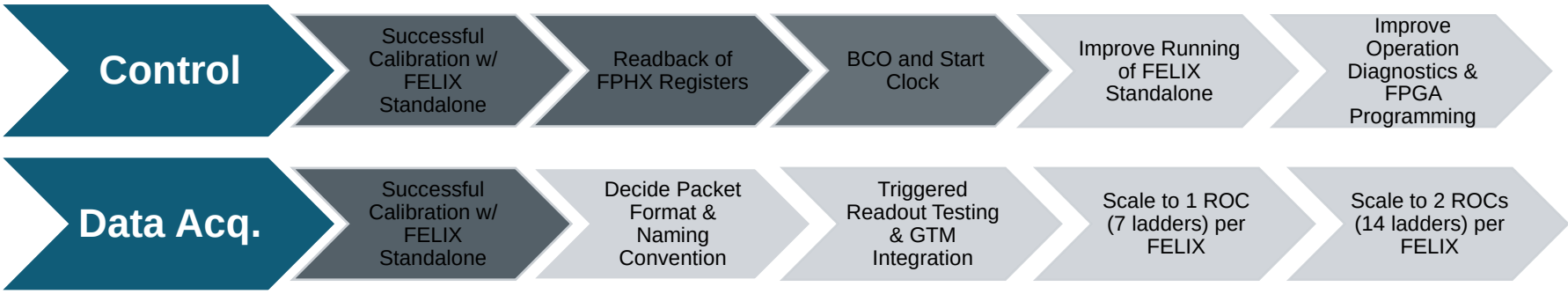

Brookhaven
National Laboratory
U.S. DEPARTMENT OF
ENERGY
INTT Readout Electronics Status
Raul Cecato
@BrookhavenLab

INTT Readout Electronics Achievements

- ROC commands tested, including some that don't work in the BNL standalone setup:
  - Readback of FPHX Registers;
    - As it has been verified in Japan, MSB of the register content is missing.
  - Change calibration parameters;
- Calibration data is saved to disk and unpacked by the current DAQ computer;
  - BCO and Start Clock provided by the FELIX;
- Second DAQ Computer on the way
- New fibers on the way

INTT Readout Electronics Next Steps



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Development Category | Done | To be Done

INTT Readout Electronics DAQ GUI

- Development of a GUI for the FELIX Standalone
  - A new GUI for the FELIX standalone system can be developed in parallel with the firmware.
  - The developer would integrate a GUI with Python code that interfaces with the FELIX. Such Python code will be in a level of abstraction close to what is now available in the FEM standalone testbench.
  - The GUI will be used primarily in the standalone system but it would be strategic to develop it considering that it might be used in the final run of the system.

INTT Readout Electronics DAQ GUI

- Raul's responsabilities:
  - Provide the DAQ Computer ready to interface with the FELIX card;
  - Provide python code and instructions to interface with the FELIX card;
- INTT team's responsabilities:
  - Come up with a GUI for the FELIX standalone system;
  - Integrate such GUI with the FELIX python interface and the operational needs of the standalone testbench;