# **TACH: Time domain Astrophysics Coordination Hub**

# **Donggeun Tak<sup>1</sup> on behalf of the TACH team.**

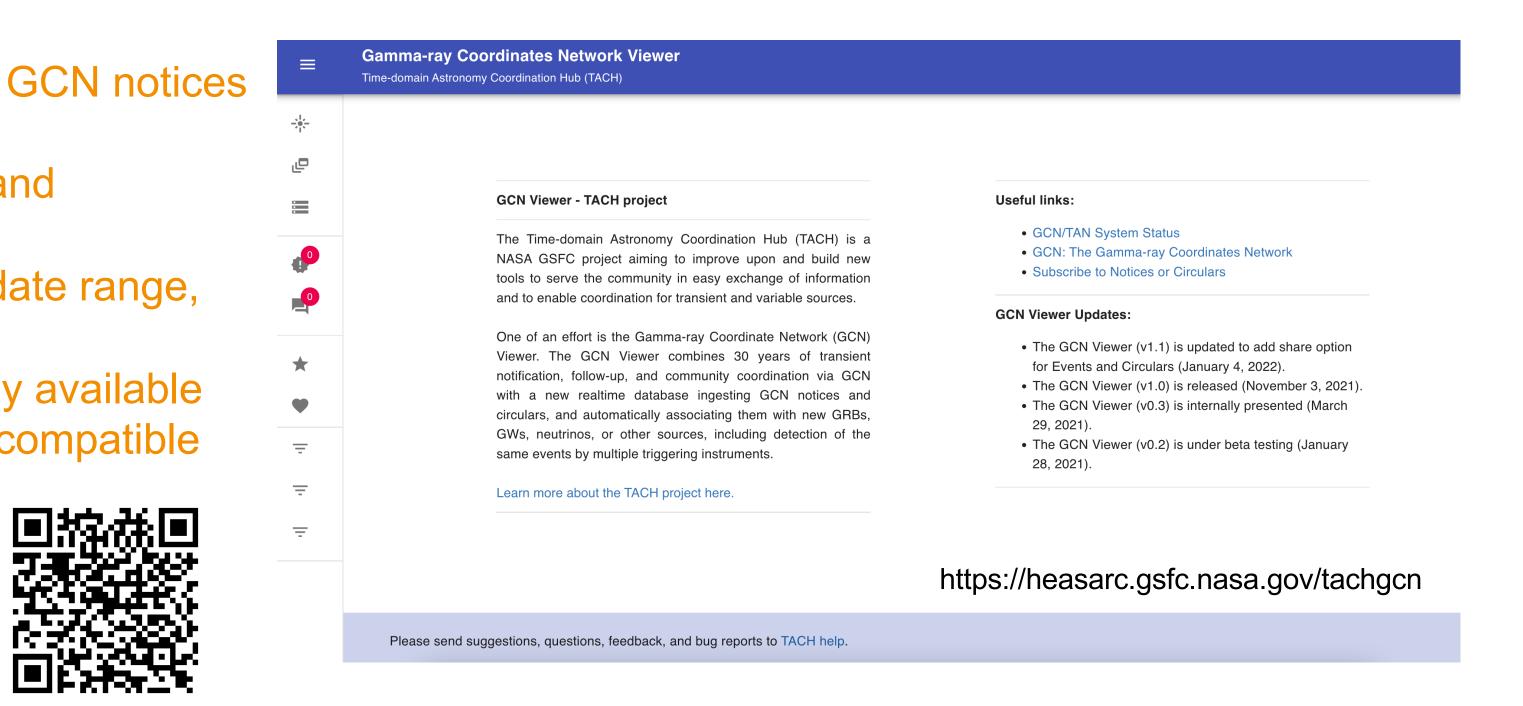
Judy Racusin<sup>2</sup> (PI), Scott Barthelmy<sup>2</sup>, Eric Burns<sup>3</sup>, Brad Cenko<sup>2</sup>, Meredith Gibb<sup>2</sup>, Victor Gonzalez-leon<sup>2</sup>, Tess Jaffe<sup>2</sup>, Ryan Lorek<sup>2,4,5</sup>, Israel Martinez<sup>2,5,6</sup>, Jeremy Perkins<sup>2</sup>, Teresa Sheets<sup>2</sup>, Leo Singer<sup>2</sup>, Alan Smale<sup>2</sup>; 1 DeutschesElektronen-Synchrotron (DESY) Zeuthen, 2 NASA Goddard Space Flight Center, 3 Louisiana State University 4 University of Maryland, Baltimore County, 5 Center for Research and Exploration in Space Science and Technology, 6 University of Maryland College Park

# **TACH and the new General Coordinates Network**

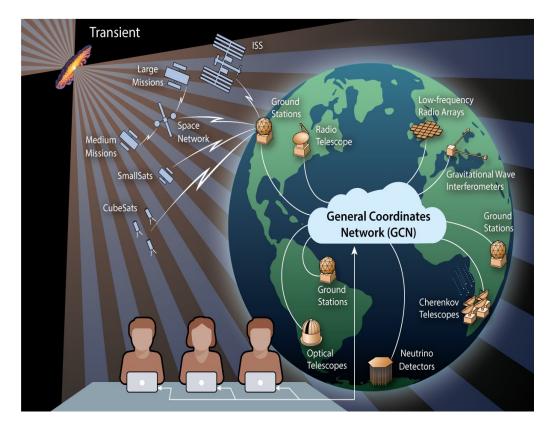
- Improving the Gamma-ray Coordinates Network (GCN)
- Contributions to multi-instrument use software, including mhealpy
- Modernized alert streams utilizing Kafka and Avro Schema
- Event-based reporting in partnership with the Transient Name Server
- Queryable HEASARC databases, archival and real-time
- Improved useability, including the Web Portal and the GCN Viewer

## The GCN viewer

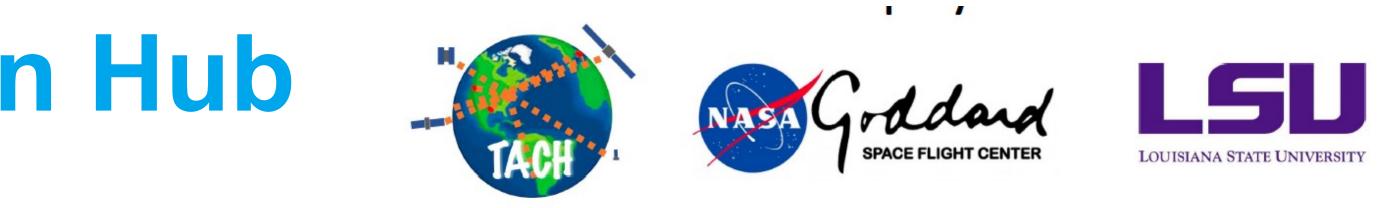
- Event-based database of gamma-ray bursts, gravitational waves, neutrino events
- Full archive and automatic update of all GCN notices and circulars
- Ease of access to full alert information and bibliographic data
- Queryable by event name, event type, date range, and etc
- A prototype of the GCN viewer is publicly available
- Will merge into the new science portal, compatible with the Kafka system

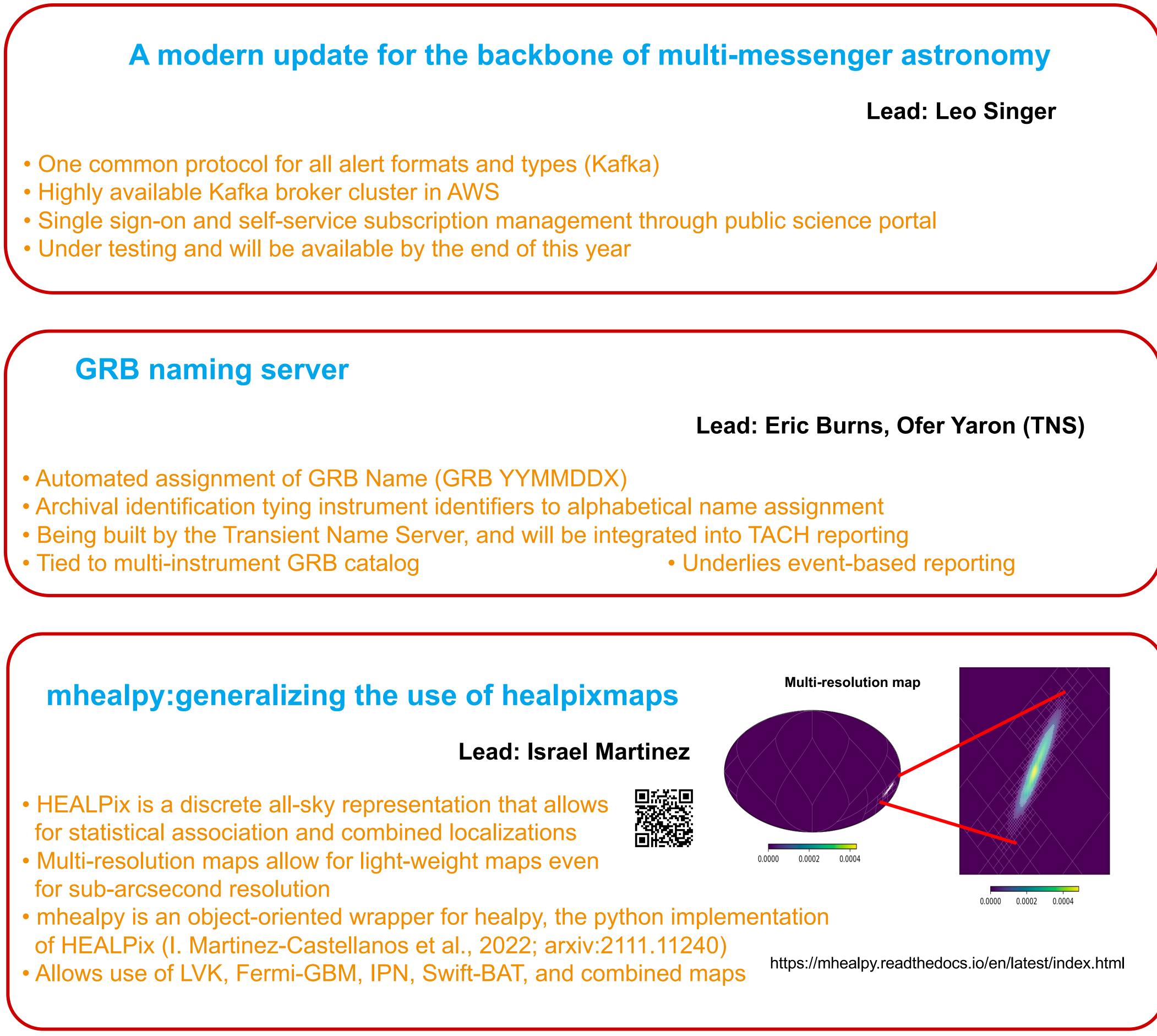


### **Principle investigator: Judith Racusion**



### Leads: Donggeun Tak, Meredith Gibb











Please contact us if you have input, questions, or suggestions, Judith Racusion (judith.racusin@nasa.gov).