ACS Community Update

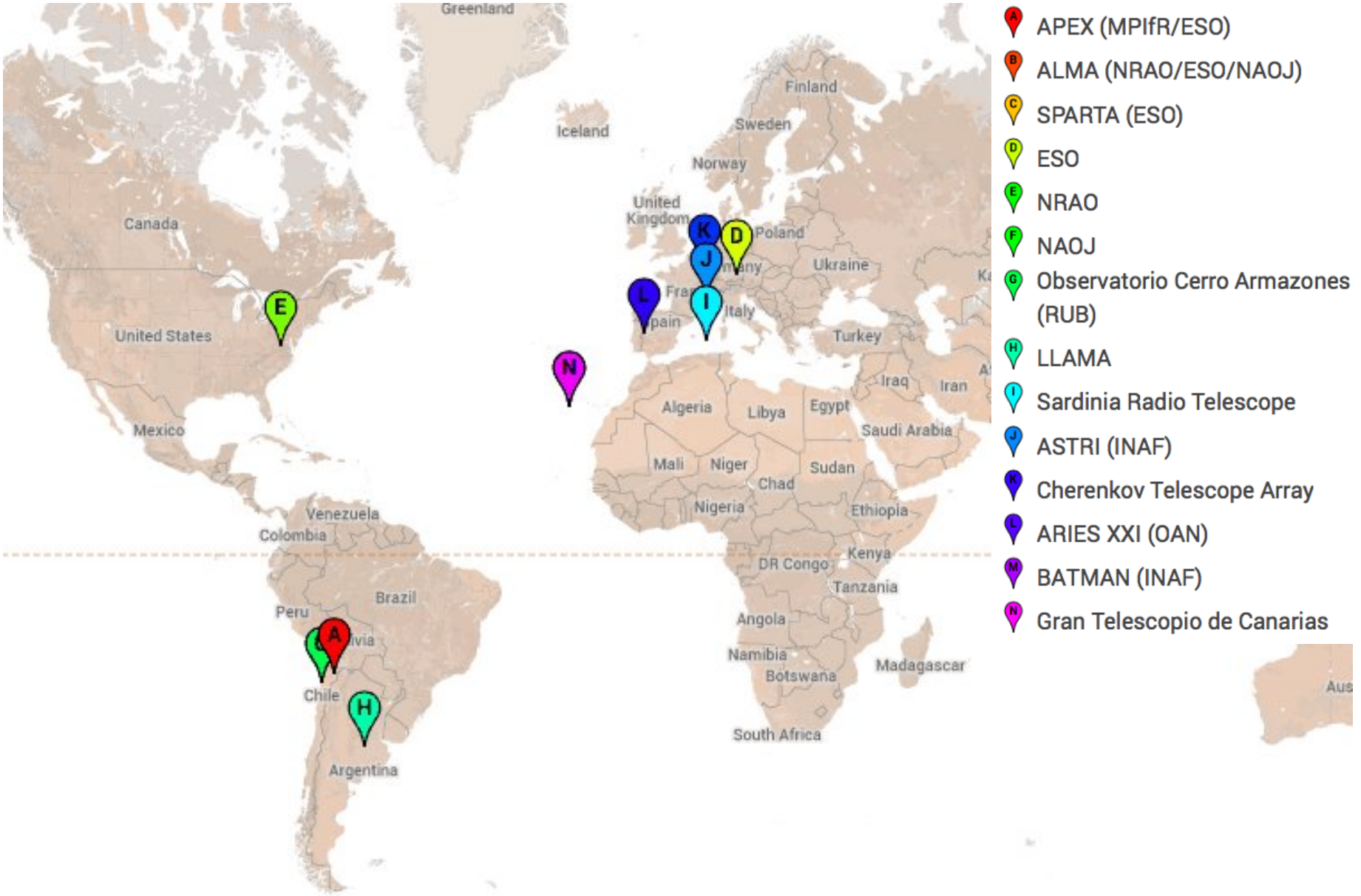
11th ACS Workshop – November 5th, 2014

Prepared by Matias Mora, et al.
(not as an NRAO employee)

ACS Community

Who's who in the community?

ACS Community



ACS Community Timeline

- **Nov. 2001**: “Common Software for the ALMA Project” paper at ICALEPCS
  - ACS is initially adapted by ESO from a Cosylab project, and released under LGPL license
- **Mar. 2004**: 1st ACS Workshop (ESO, Garching)
  - Other projects decide to use the framework
- **Mar. 2007**: Group at UTFSM receives funding for ACS collaboration project
  - 2007-2009: 4th,5th,6th ACS Workshop and community meetings (UTFSM, Valparaíso)
- **Jul. 2012**: 8th ACS Workshop (ASTRI, Asiago)
  - CTA had decided to use ACS as its control framework

ACS Community Timeline

- **Sep. 2012**: Independent ACS Community proposal document published by UTFSM
  - Announced, but only partially implemented
- **Jul. 2014**: ACS Community discussion (SPIE, Montreal)
  - Action items defined to formalize community
- **Sep. 2014**: ACS Community github announcement
  - Initial repository creation and first direct community-based contributions
- **Sep. 2014:** 10th ACS Workshop (LLAMA, Sao Paulo)
  - LLAMA had decided to use ACS as its control framework
  - Using CentOS5 + ACS-Workshop github
- **Nov. 2014 (TODAY)**: ACS Community Meeting

SPIE Meeting Summary

- Montreal, Canada – June 26th, 2014
- Attendees
  - Christian Westhues (Ruhr-Uni. Bochum)
  - Jonathan Antognini (UTFSM University)
  - Paolo Di Marcantonio (INAF/OATS)
  - Matthias Fuessling (DESY/CTA)
  - Joe Schwarz (INAF/CTA)
  - Jorge Ibsen (ESO/ALMA/LLAMA)
  - Erich Schmid (ESO/ALMA)
  - Gianluca Chiozzi (ESO)
  - Matias Mora (NRAO) – *Meeting Moderator*

SPIE Meeting Summary

- Update of user directory
- Review of the 2012 community proposal
- Identification of community **requirements**
- Identification of community **resources**
- Definition of **action items**

SPIE Meeting Action Items

- ALMA to give public access to ACS sources
  - Public SVN server at ESO is now available
- New github project creation
  - LGPL released modules since ACS-10.2 are available
  - ExtProds largely replaced by third-party packages download script
  - Git developer guidelines are available on the github wiki
- Community guidelines definition
  - Available on the github wiki, needs further input
- Technical roadmap definition
  - Available on documents github
- Github project announcement
  - Announced on the acs-discuss mailing list on Sept. 7th

Community Organization

- “The group of ACS users and voluntary Community Branch contributors”
- **ACS Community Board** (ACB)
  - Define policies and procedures
  - Define and implement overall roadmap
  - Initial 2-year members TBD
- **Community Control Board** (CCB)
  - Receive, review and approve new patches
  - Currently led by Jorge Avarias, with support from Joe Schwarz

Community Organization

- Procedures
  - Communication channels
  - Issue reporting
  - Submission requirements
  - Patch review (CCB)
  - Patch integration
  - Synchronization from ALMA repo

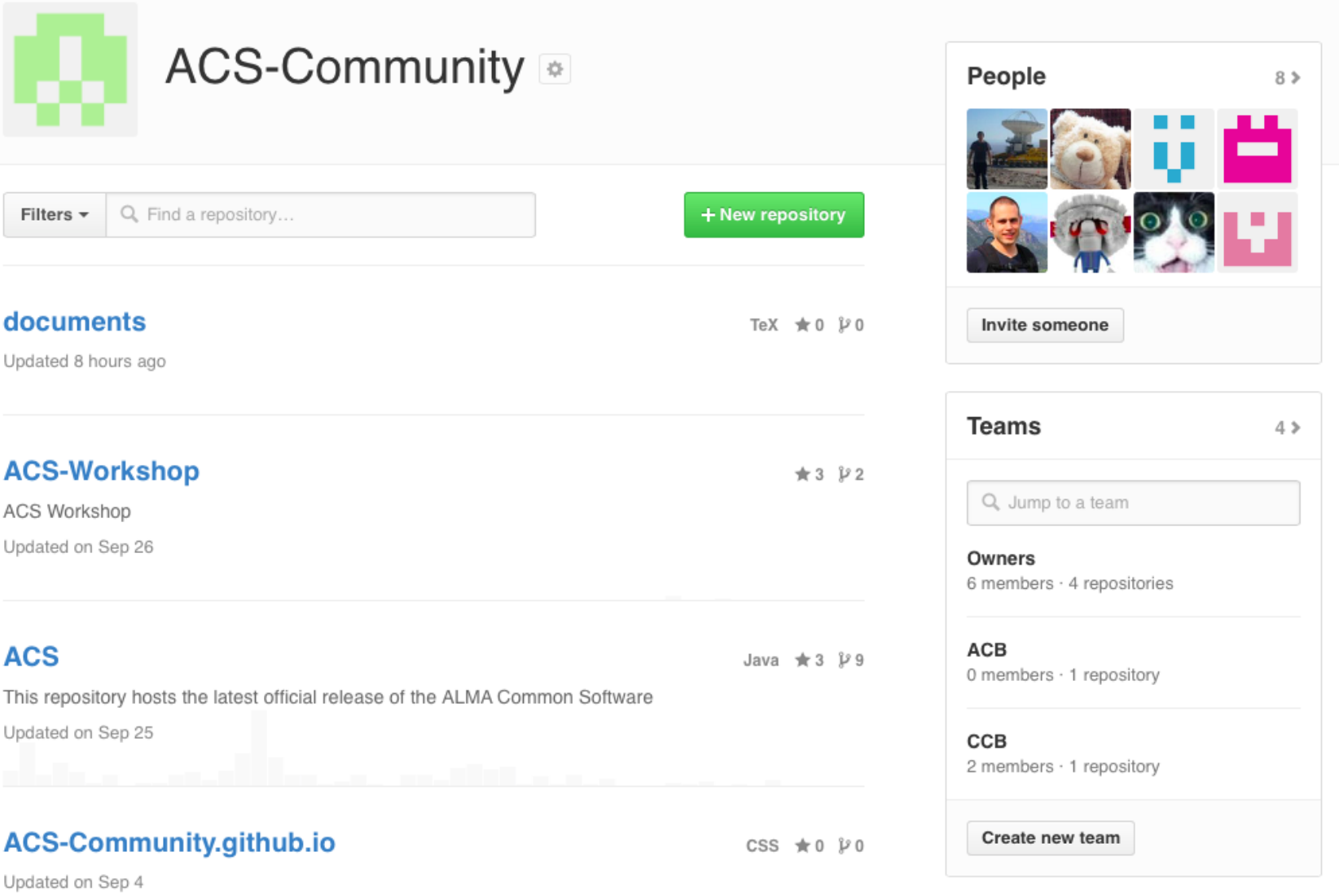
Community Resources

- **Github**
  - `https://github.com/ACS-Community/ACS`
  - **Git repo:** All LGPL released ACS modules since ACS-10.2
  - **Wiki:** Documentation and procedures
  - **Issue tracker:** technical discussions, feature requests, bug reports
- **Announcement group**
  - `acs-community-announce@googlegroups.com`
  - `https://groups.google.com/forum/#!forum/acs-community-announce`

Community Resources

- **Jenkins build/test server**
  - `http://lc-ip92.inf.utfsm.cl`
- **ACS Course material**
  - `https://github.com/ACS-Community/ACS-Workshop`
- **Document repository**
  - `https://github.com/ACS-Community/documents`
- *Still in progress...*
  - *acs-community.org*
  - *Binary repository(ies)*

Community Resources



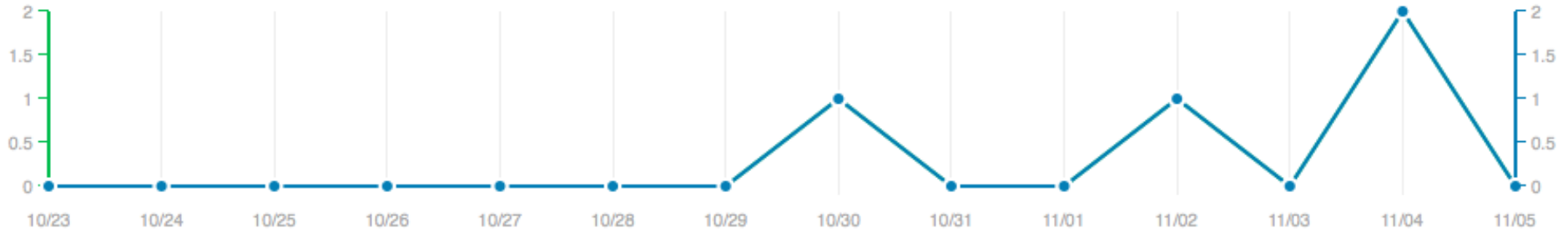
Community github: Stats

- **636** views during the last month
- **8** project members with roles
  - Owners, ACB, CCB, Developers
- **13** issues created
- **4** pull requests completed, by **3** different contributors
- **9** forks by different users
  - **3** active forks: Ubuntu, Debian and Fedora porting

Community github: Stats

Contributors | Traffic | Commits | Code frequency | Punch card | Network | Members

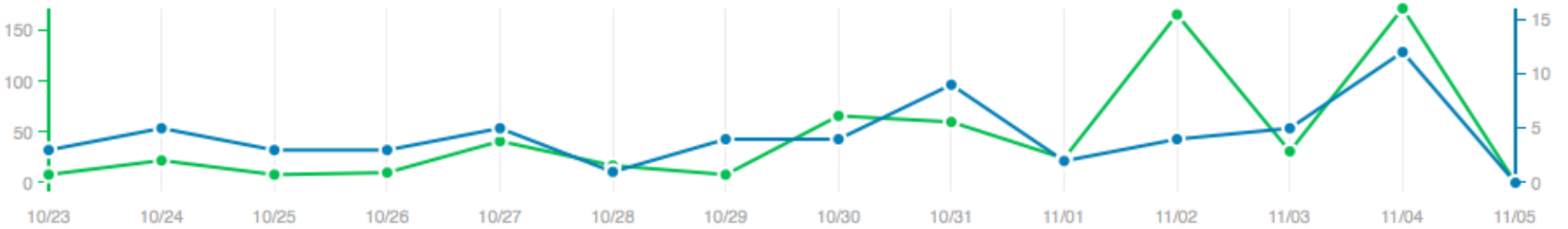
Git clones



4
Clones

4
Unique cloners

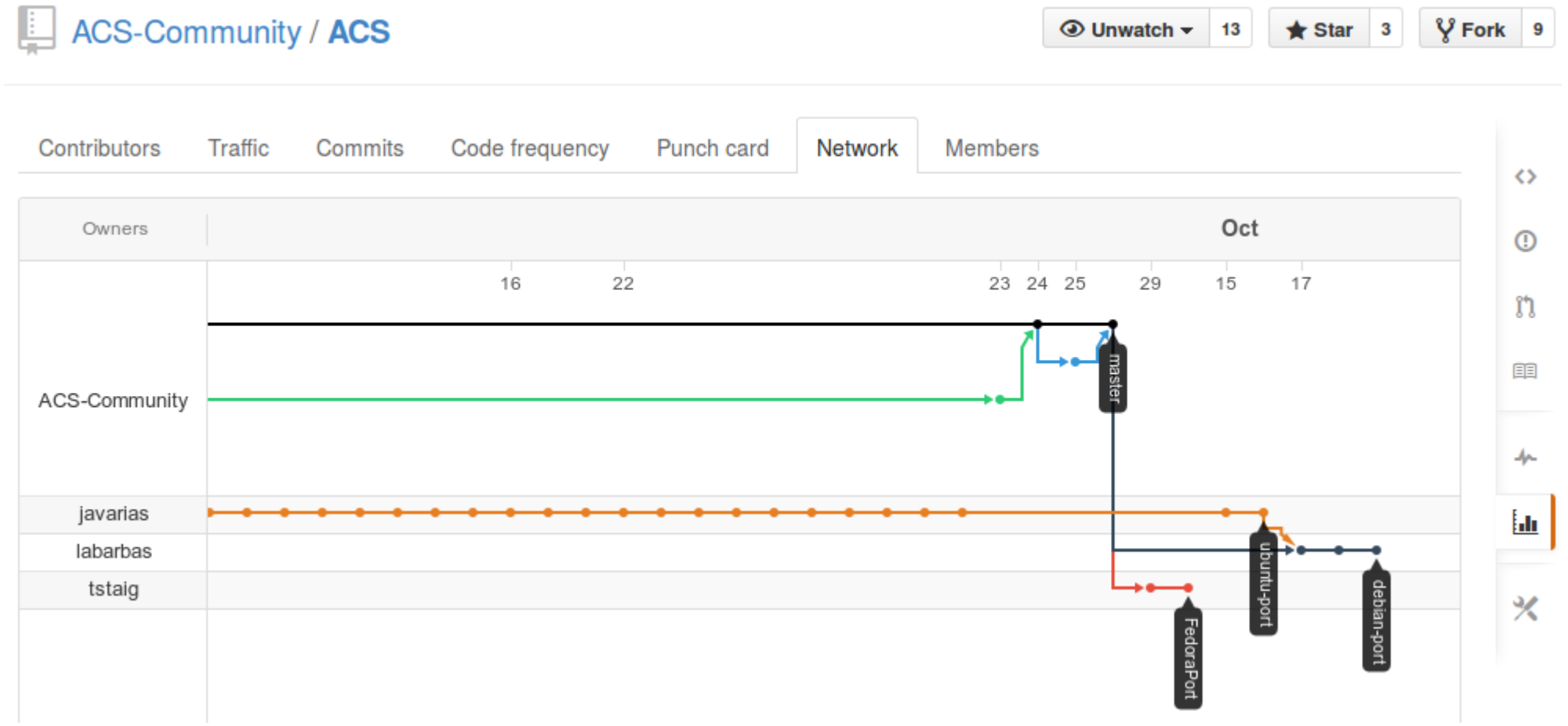
Visitors



636
Views

35
Unique visitors

Community github: Active Forks



Community Roadmap

Document draft released today!

Community Roadmap

- ACS Community resources/services
- Documentation
- Platform OS support
- ACS packaging
- Embedded systems support
- Development tools
- ACS services

Community Roadmap

- Milestone 1: Re-organize ACS
  - Focus development on CentOS 6
  - Remove external products from the build
  - Configuration of an “official” build server
  - Basic documentation for new developers and users
- Milestone 2: ACS on new platforms
  - Support other Linux distributions
  - Move to CentOS 7
  - Embedded systems
  - Community use-case tutorials

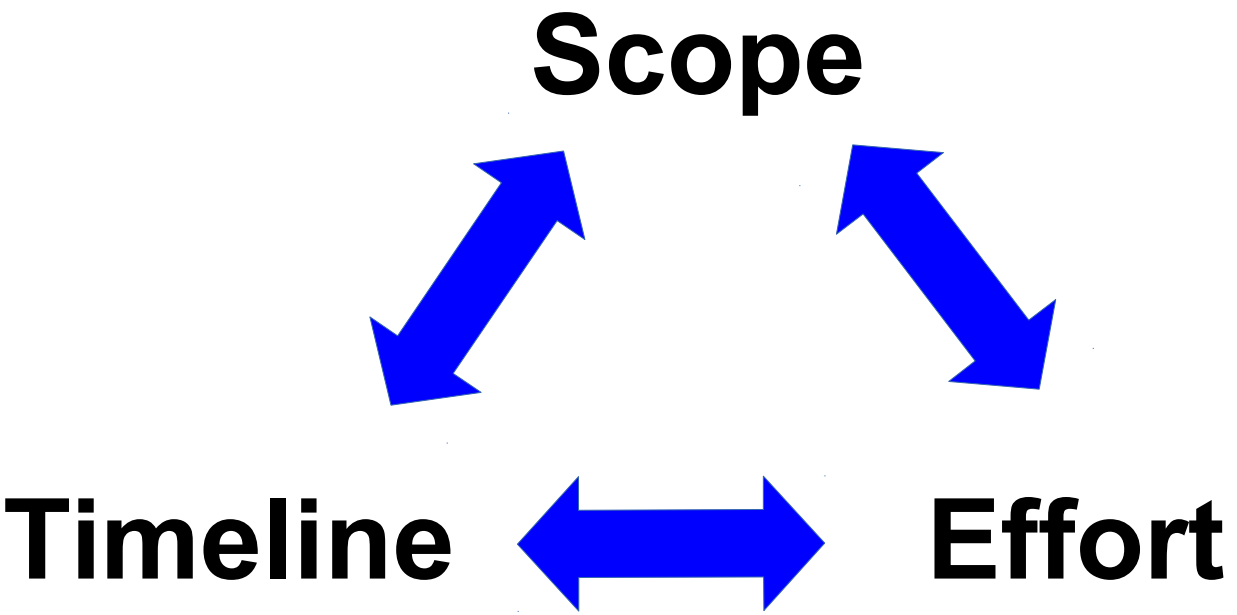
ACS Community

All of this has been thanks to a number of **voluntary** contributors

ACS Community

Help is wanted!

ACS Community

Where to go from here?

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