**Sujet 7**

RIPE Atlas : a global network of probes that measure Internet connectivity and reachability

* <https://atlas.ripe.net/>
* Voir la présentation de Emile Aben à TMA 2017 sur l'utilisation pour la recherche <https://www.youtube.com/watch?v=7Riz80tgkyg>
* voir aussi la présentation de Vesna Manojlovic aux JCSA 2018 sur les considérations éthiques <https://www.afnic.fr/fr/l-afnic-en-bref/actualites/actualites-generales/11152/show/jcsa18-retour-sur-l-edition-2018-de-la-journee-du-conseil-scientifique-de-l-afnic.html>
* Voir l'article sur RIPE Atlas and Internet Protocol journal

**Réseaux IP Européens** (**RIPE**, [French](https://en.wikipedia.org/wiki/French_language) for "European IP Networks") is a forum open to all parties with an interest in the technical development of the [Internet](https://en.wikipedia.org/wiki/Internet). The RIPE community’s objective is to ensure that the administrative and technical coordination necessary to maintain and develop the Internet continues. It is not a [standards body](https://en.wikipedia.org/wiki/Standards_organization) like the [Internet Engineering Task Force](https://en.wikipedia.org/wiki/Internet_Engineering_Task_Force) (IETF) and does not deal with [domain names](https://en.wikipedia.org/wiki/Domain_name) like [ICANN](https://en.wikipedia.org/wiki/ICANN).

RIPE is not a legal entity and has no formal membership. This means that anybody who is interested in the work of RIPE can participate through mailing lists and by attending meetings. RIPE has a chair to keep an eye on work between RIPE meetings and to act as its external liaison. [Rob Blokzijl](https://en.wikipedia.org/wiki/Rob_Blokzijl), who was instrumental in the formation of RIPE, was the initial chair and remained in that position until 2014, when he appointed Hans Petter Holen as his successor. The RIPE community interacts via RIPE Mailing Lists,[[1]](https://en.wikipedia.org/wiki/RIPE#cite_note-Mailing_Lists-1)[[2]](https://en.wikipedia.org/wiki/RIPE#cite_note-RIPE_Mailing_Lists-2) RIPE Working Groups,[[3]](https://en.wikipedia.org/wiki/RIPE#cite_note-wg-3) and RIPE Meetings.[[4]](https://en.wikipedia.org/wiki/RIPE#cite_note-ripeintro-4)

Although similar in name, the [RIPE NCC](https://en.wikipedia.org/wiki/RIPE_NCC) and RIPE are separate entities. The [RIPE NCC](https://en.wikipedia.org/wiki/RIPE_NCC) provides administrative support to RIPE, such as the facilitation of RIPE meetings[[4]](https://en.wikipedia.org/wiki/RIPE#cite_note-ripeintro-4) and providing administrative support to RIPE Working Groups.[[3]](https://en.wikipedia.org/wiki/RIPE#cite_note-wg-3) It was established in 1992 by the RIPE community to serve as an administrative body.

RIPE Atlas:

* Goal: improve internet through measurements
* Probes hosted by volunteers
* Data publicity available

RIPE Atlas Probe

* Regular probes
* Ripe atlas anchors
* Future: virtual machine probes

Interaction: web interface, api, cli

Features:

* 6 types of measurements : ping, traceroute, dns, ssl/tls, ntp, http (to anchors)
* Apis and cli tools to start measurements and get results
* Streaming data for real-time results
* “Time Travel”, latency MON, domain MON
* Status checks (Icinga and Nagios)