

Communicating the status of connectivity in Costa Rica

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Regulation based on the quality of experience

The regulation on network quality establishes the required indicators to evaluate connectivity services in Costa Rica (voice services, data transfer). To endure in time, it relies on complimentary regulation:

- Threshold indicators.
- Measurement Procedures



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In RPCS articles **8** and **9** refer to threshold and measurement procedures.

Network Quality Indicators

There are several indicators that get reviewed:

Common (IC):

Apply to all. For example: Outage repair time, billing issues

Voice (IV):

Apply to voice services, POTS, VoIP, mobile.



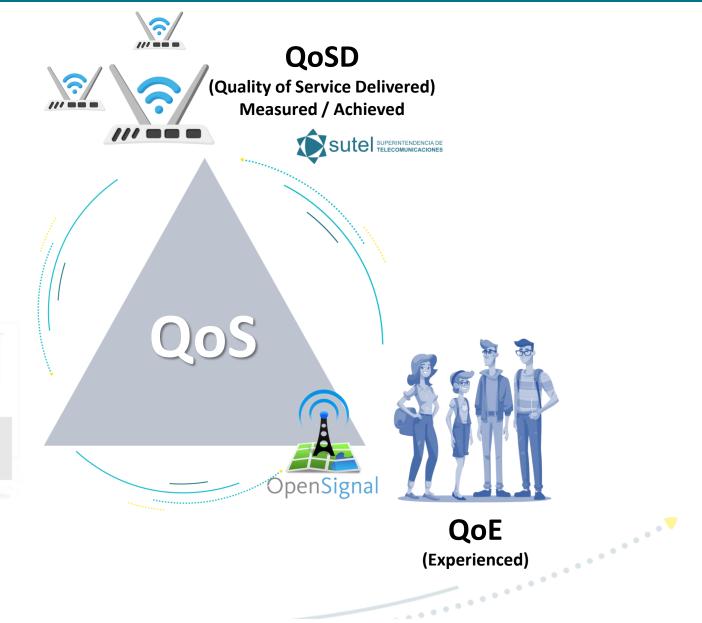
Mobile (IM):

Exclusive to mobile services. For example: coverage, communication drop rate.

Data Transfer (ID):

Common to data transfer through fixed or mobile networks.

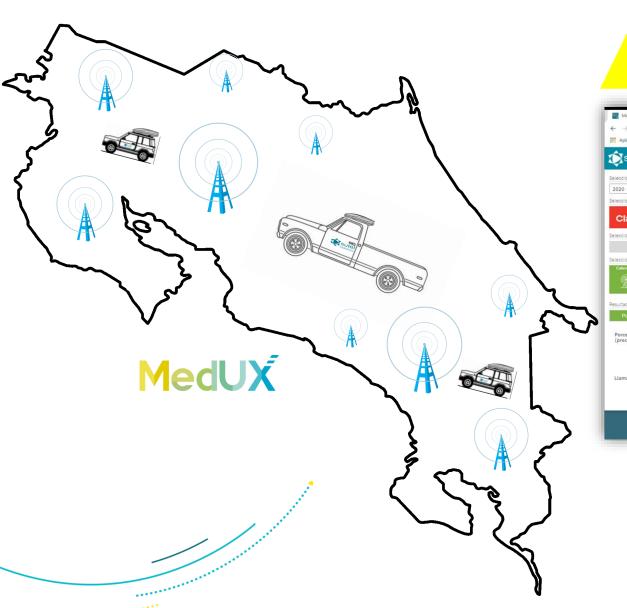
Measuring Quality





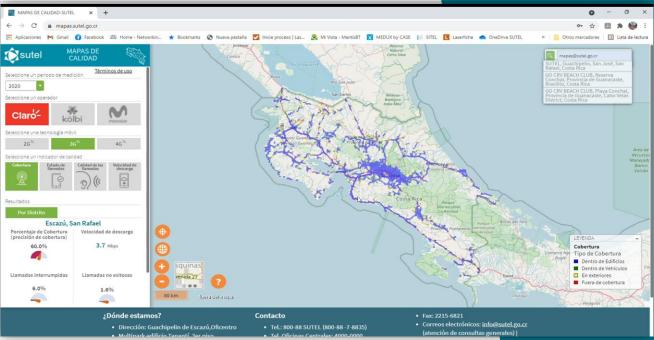
QoP (Perceived)

Communicating about mobile services



Mobile Services

-Drive Test Measurementshttps://mapas.sutel.go.cr/



Mobile services are measured using probes carried in a car. The probe behaves like an end-user, makes and receives calls, establishes data sessions while getting technical indicators.

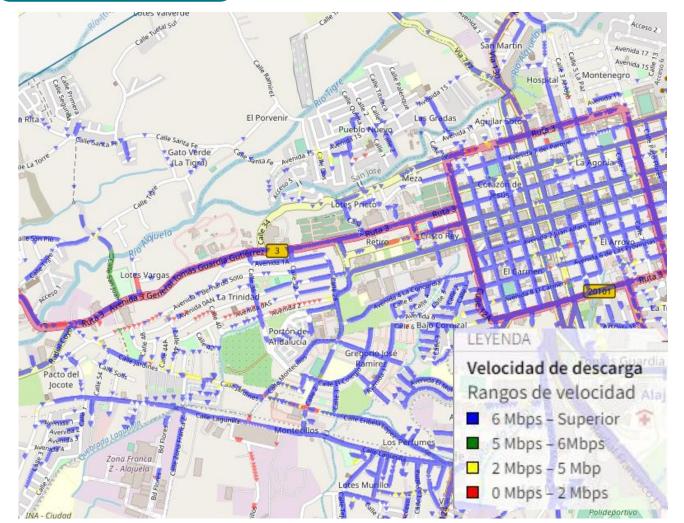
Communicating about mobile services







Probes outside the vehicle simulates a person using the service outside and guarantees that measurements don't include attenuation losses.



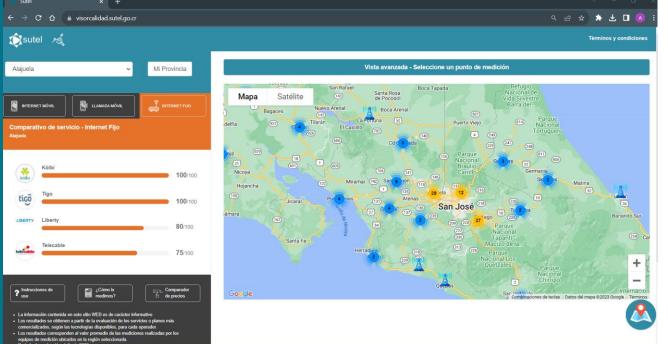
Communicating about fixed services

Fixed Services -Probes-

https://visorcalidad.sutel.go.cr/







Small Form Factor







- 4 mayor fixed operators (90% market share) get measured.
- Some set of probes get relocated every year.
- Speed (Up/Down) and latency measurements.



Communicating about customer perception

How are the polls conducted?

General Data:



Where? National coverage

Confidence level: 95%

6 Error margin: 4%

Population sample: 12.575 people

Dates: February to August

Sample distribution:

■ Mobile calling: 1.850

■ Mobile Internet: 1.850

■ Fixed calling: 2.875

■ Fixed Internet: 2.400

TV services: 3.600

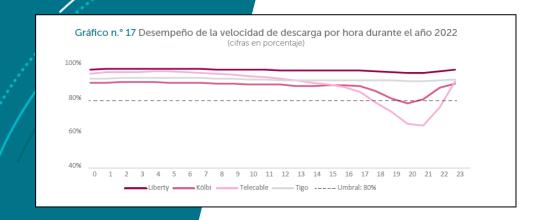
Who can take part? Adults (18+ older) current and frequent users of telecom services (services 3+ months).

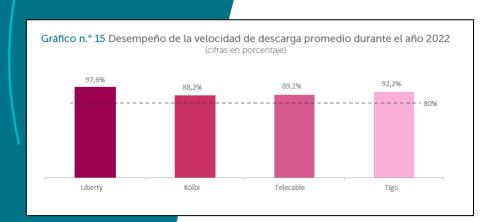


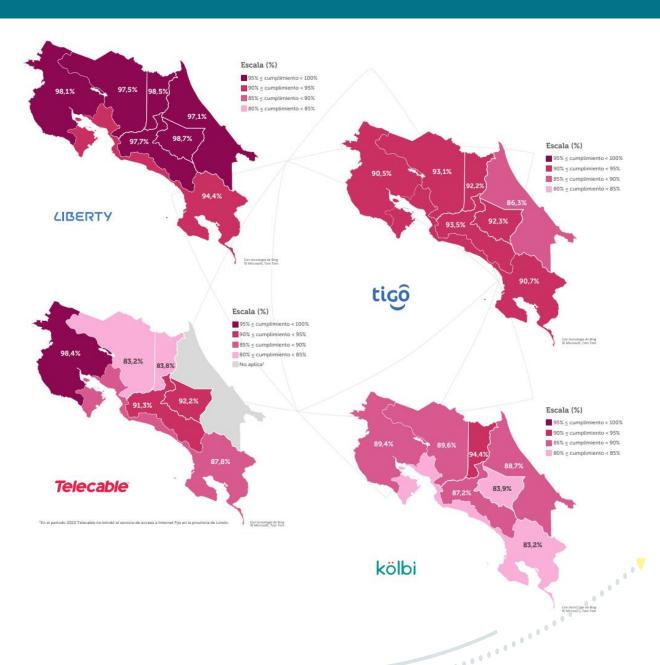
Network Reports

Fixed Networks

https://www.sutel.go.cr/pagina/redes-fijas-internet-fijo



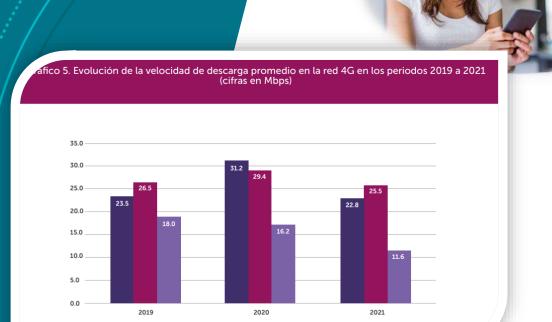




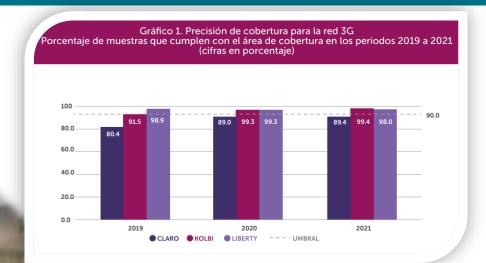
Network Reports

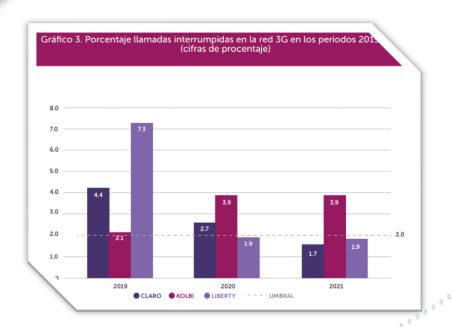
Mobile Networks

https://www.sutel.go.cr/pagina/redes-moviles-celulares



● CLARO ● KOLBI ■ LIBERTY

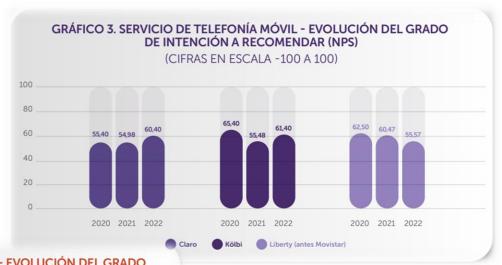




Network Reports

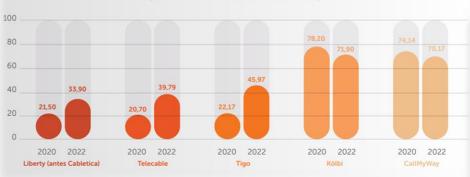
Survey (polling) results

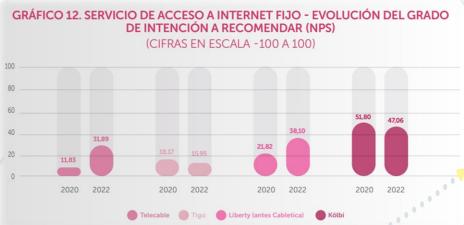
https://www.sutel.go.cr/pagina/percepcion-de-los-usuarios





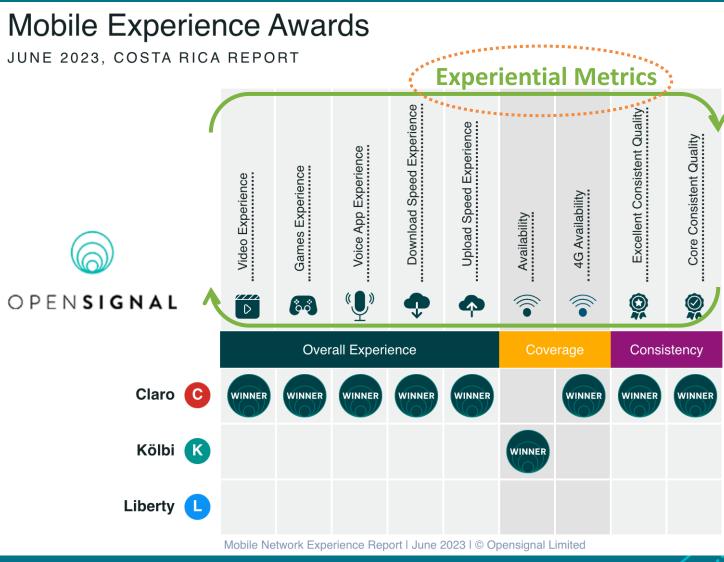
(CIFRAS EN ESCALA -100 A 100)





End-to-End experience with Opensignal Crowdsourcing





Independent semestral results in coordination with Opensignal's team

End-to-End experience with Opensignal Crowdsourcing

Opensignal Crowdsourcing methodology

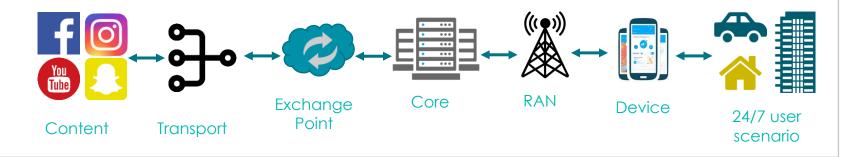


Legacy QoS measurements

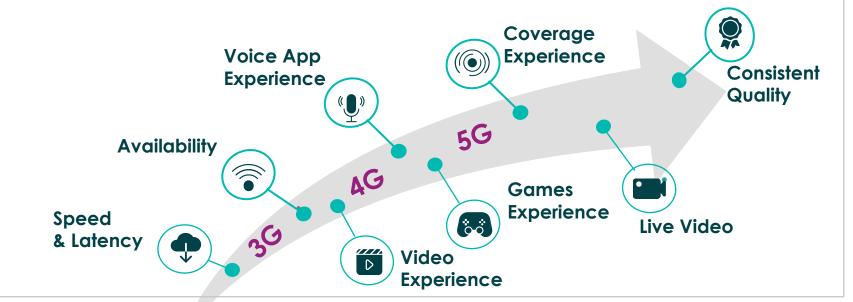


Traditional crowdsourcing providers only measure an optimized network performance

To Opensignal's approach of End-to-End User-Centric measurements



Opensignal on-device experiential measurements/ metrics provide the real user experience



Information for everyone



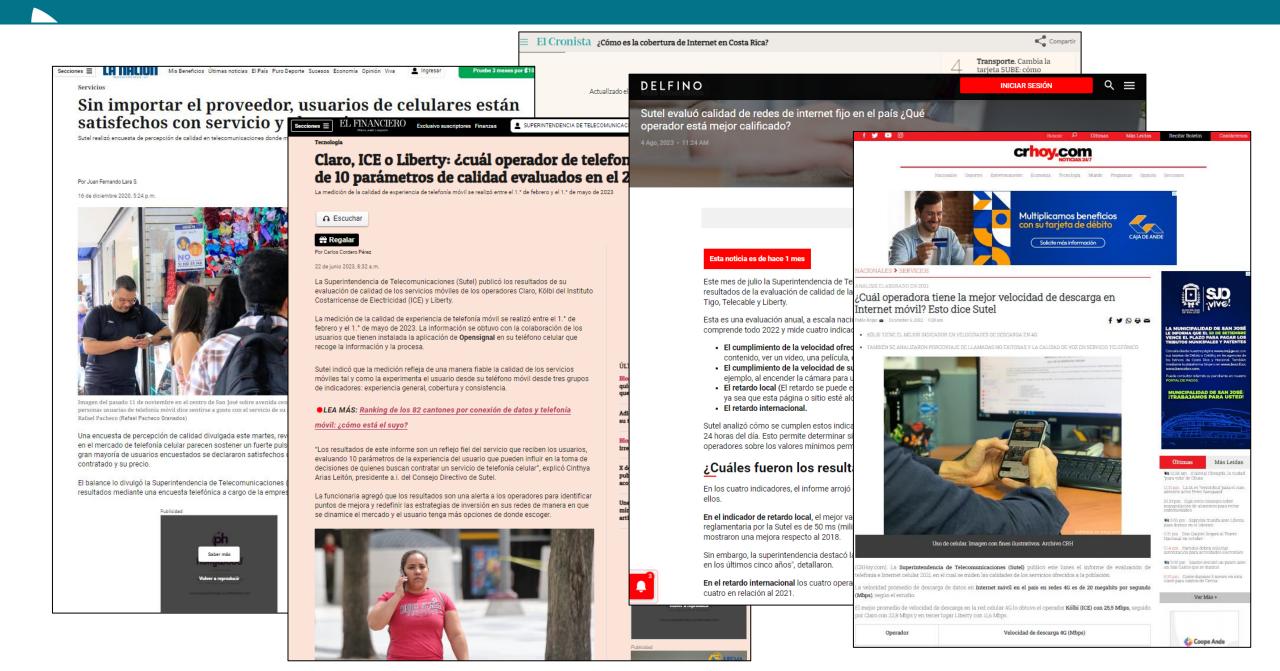
Accessible and easy to understand







Press Releases



Recommendations

- Rely on media: schedule press conferences, position your reports.
- Press releases.
- Infographics vs. large technical reports: easier to understand.
- Report aspects that catch the eye of the user: video experience, gaming, network consistency.
- Keep your webpages updated.









