

# LACNIC Update

ARIN 43

Bridgetown, Barbados

April 9, 2019



# Three Topics

## 1. Excellence in Internet Number Resource Management

- Customer Satisfaction Survey 2018
- Membership evolution
- New members policy phases status
- Resource Transfers
- Elections Board of Directors
- MiLACNIC

## 2. Continued strengthening of a secure, stable, open, and continuously growing Internet

- Security, Stability, Resilience
- IPv6 Deployment
- Training

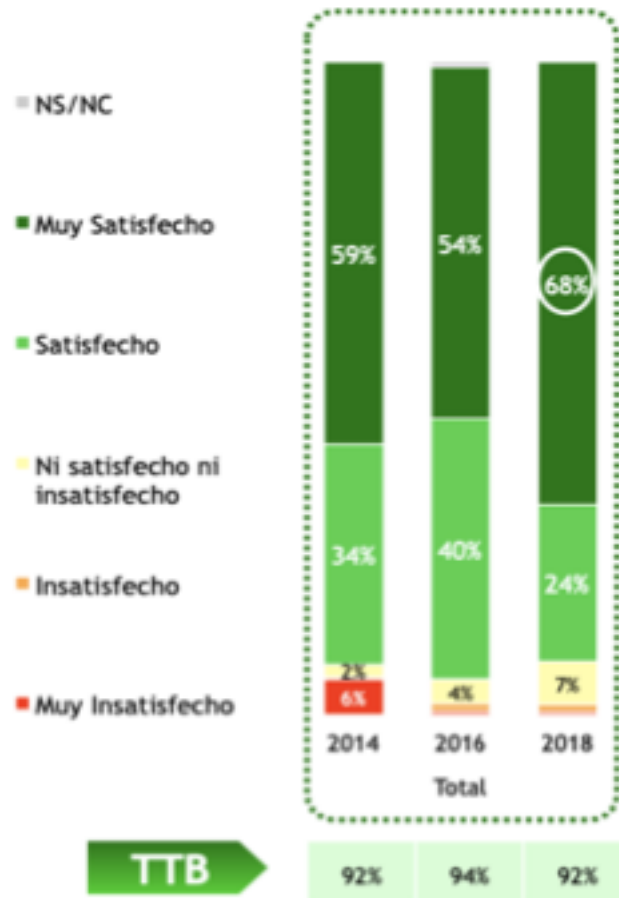
## 3. Promoting and enriching an inclusive, bottom-up Internet governance model

- PDP, developments and proposals
- Community Building

# Excellence in Internet Number Resource Management



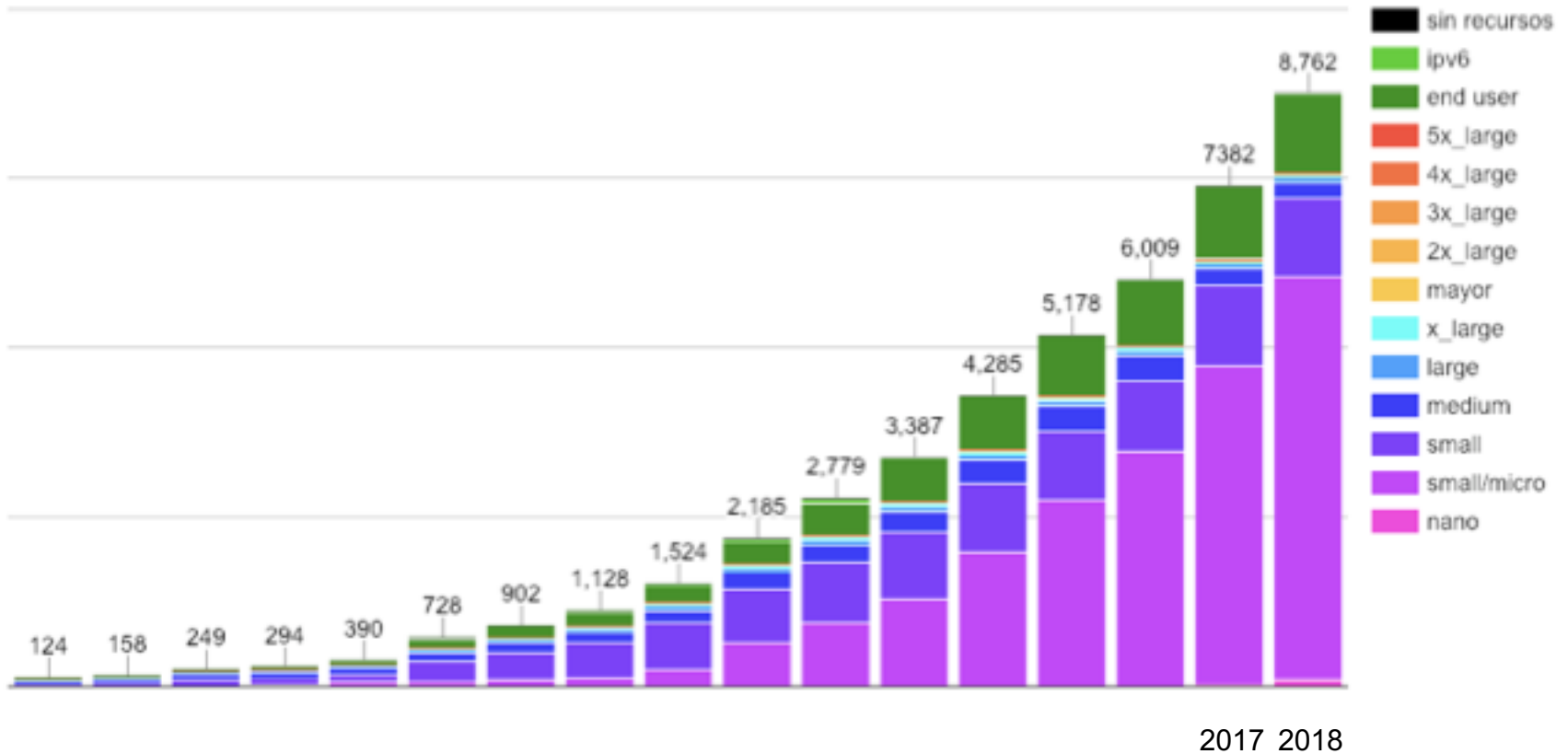
# Customer Satisfaction Survey 2018



- Conducted by MERCOPUS (an international consultancy firm based in Montevideo, Uruguay)
- 92% of customers are either satisfied or very satisfied with LACNIC
- 68% of respondents are very satisfied with LACNIC

# Resource Management

## Membership Growth Evolution



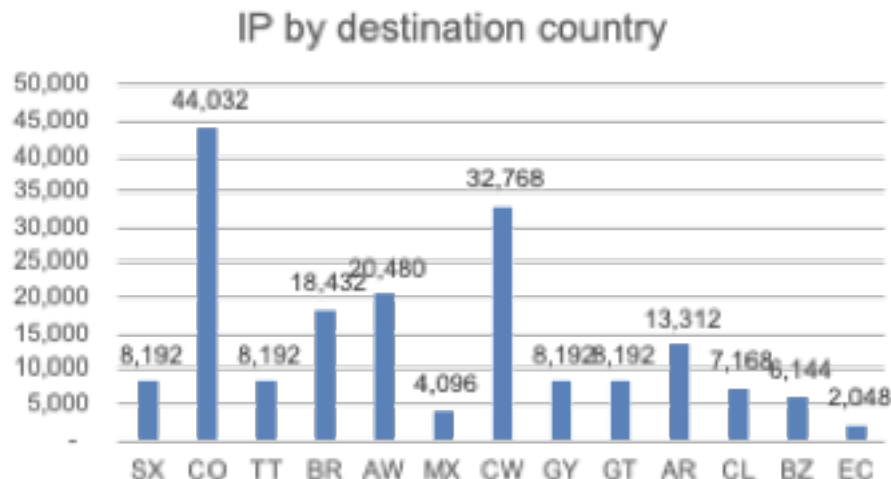
# Resource Management

## New Members Policy – Phase III

- LACNIC entered Phase III on Feb 15<sup>th</sup>, 2017
  - *“No IPv4 allocations or assignments will be made to organizations that have already been assigned or allocated IPv4 resources by LACNIC or by the organizations that preceded LACNIC in the region currently serviced by LACNIC.”*
- Maximum allocation size /22 (one-time only)
- Current pool size is 2,3 million addresses.
- This phase is expected to end by middle 2020

# Resource Transfers

- LACNIC policy proposal changing item 2.3.2.18 of the Policy Manual was implemented
  - Transfers that are not due to an M&A process are now allowed
  - Only intra-RIR transfers are permitted ( inter-RIR proposal being discussed)
- **33** transfers were approved during the last two years
- New Transfers Listing Service implemented in 2018



\*Resource Transfers originated in M&A are not included in the charts

# LACNIC Board of Directors (2018 elections)

- 10 candidates from 8 different countries were nominated.

Results:

- Alejandro Guzman was re-elected.
- Esteban Lescano and Evandro Varonil were elected for a first term.





# MiLACNIC

- MiLacnic is a customer Portal released in 2017
- Developed in-house, many modules have been added during the last 2 year
- IP/ASN/rDNS admin, RPKI certificates, online payment and account statements.
- Transfers listing Service
- Membership module (training and event registration and activity reports, elections and more)



# Strengthening a Secure, Stable, Open, and Continuously Growing Internet



# Security, Stability and Resiliency Initiatives

- Security and stability for routing
  - Resource certification outreach
- DNS security and stability
  - New root server copies (+RAICES):
    - +Raíces is a programme via which LACNIC, in partnership with other organizations, sponsors DNS root server copies throughout its service region*
    - Monterrey, MX (I)
    - Panama City, PA (K)

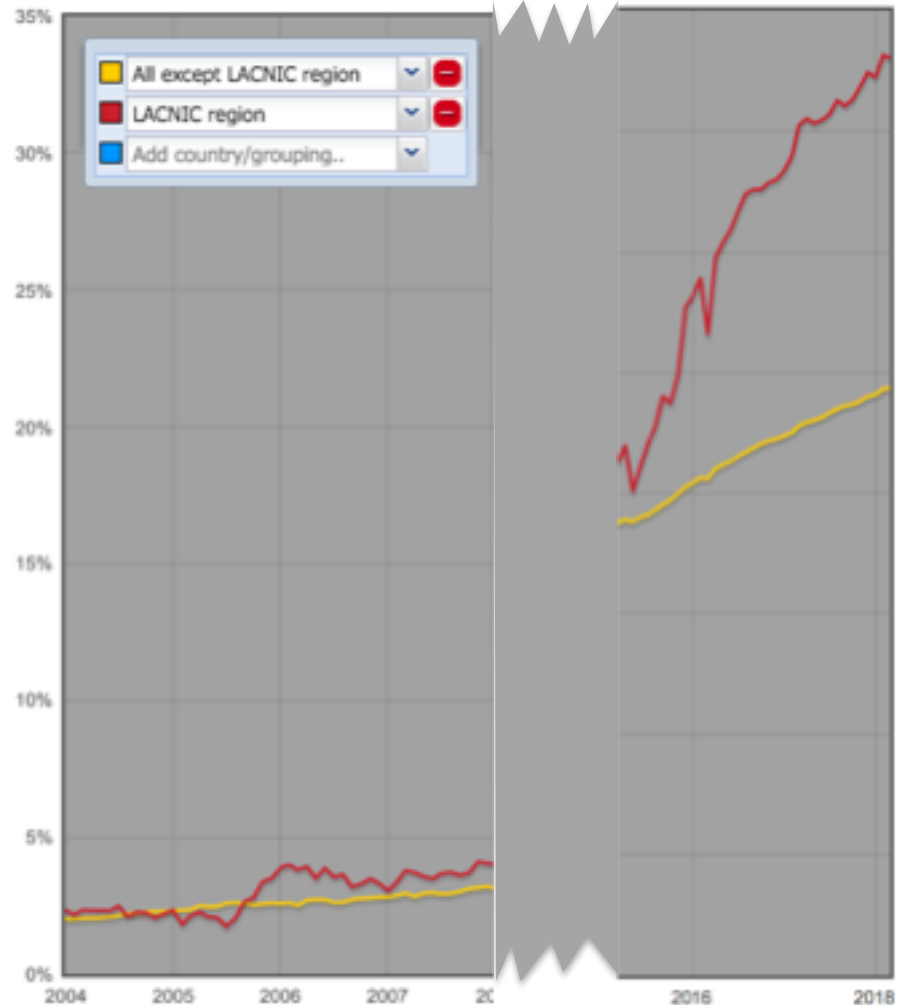
# Secure, Stable, Open and Resilient Internet.

## Networks announcing IPv6 prefixes (%ASN 12/Feb/2019)

- There are 7868 visible ASNs in the region, 3198 (40.65%) of which are announcing IPv6 prefixes.
- Highest coverage in the five regions.

Source:

<http://v6asns.ripe.net/v/6?s= ALL;s= RIR LA CNIC>



# Secure, Stable, Open and Resilient Internet.

## IPv6 Users per Country

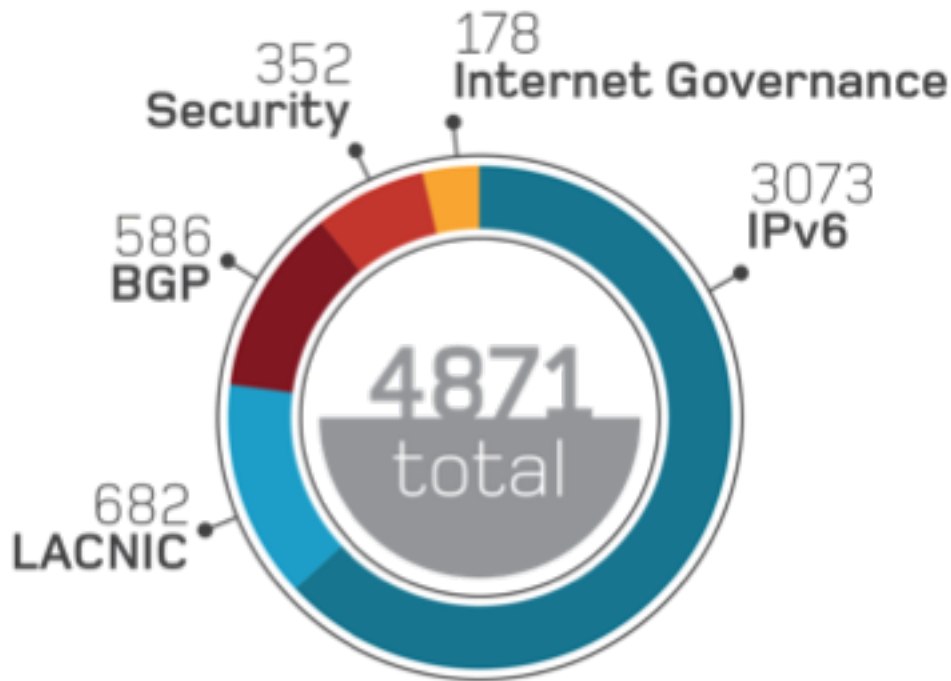
- Several countries with large and/or growing adoption rates
  - UY ~34%
  - BR ~27%
  - **MX** ~25%
  - TT, EC, **SX** ~18%
  - PE ~17%
  - AR, BO, GT ~ 5-7%
  - DO, **BZ** ~ 1.0%



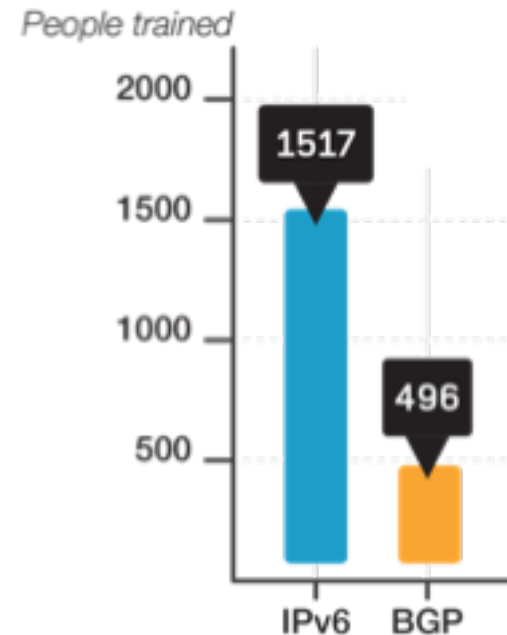
# Online Training 2018

## Webinars & LACNIC Campus

### WEBINARS: People trained by topic



### LACNIC Campus: People trained



#### Courses dictated:

- IPv6 Basic: 5 editions
- IPv6 Advanced: 3 editions
- BGP+RPKI: 3 editions



# Additional Approach: IPv6 for Decision Makers



## Guatemala:

- President's Office
- Hon. Gabriel Juárez (Vice Minister)
- Telecoms
- Superintendency of Guatemala (Regulator)
- University of Valle (.GT)
- TIGO (Operator)

## El Salvador:

- Technical Planning Secretary, President's Office
- General Superintendency for Electricity and Telecoms (Regulator)
- Casa TIC (Association)
- Mesoamerica Project

## Belize:

- Hon. Frank Mena (Minister)
- Public Utilities Commission (Regulator)
- Belize IXP
- Belize ICT Association
- Central Information Technology Office (eGovernment)
- Belize Telemedia Ltd, Smart, Alternative Networks, Centaur Cable (Operators)

## Honduras:

- COMTELCA
- CONATEL (Regulator)
- HONDUTEL (Operator)

# Routing Security Project

LACNIC and NIC.MX secured funding from the Open Technology Fund for a project on Routing Security and Internet Freedom.

The goal is to strengthen Routing Security in LAC while raising awareness about the impact of routing incidents on Internet Freedom.

As part of the project, LACNIC and NIC.MX will:

- Develop an RPKI Validator
- Promote the deployment of the Validator and RPKI in LAC
- Document routing incidents through the development of a tracking tool



# FRIDA



## **Current Focus**

- Closing the Digital Gap through Community Networks
- Closing the Gender Divide in Technology

## **Projects supported in 2018**

### Community Networks

- Award to Atalaya Sur, urban Community Network in informal settlements in Buenos Aires, Argentina
- Supported the promotion of enabling regulation and the creation of 3 Community Networks in Brazil and Colombia

### Gender Divide

- Award to Wikimedia for hackathons to edit wikipedia with Gender perspective and have more female editors in LAC.
- Award to Universidad de la República in Uruguay for efforts to attract more women to careers in technology
- 2 additional grants in Chile and Colombia

More info: <https://programafrida.net/en/>

# Ayitic Goes Global

<http://www.ayitic.net/en/>

Pilot program that seeks to increase women's access to digital **employment** through **capacity building** and the **strengthening of Internet infrastructure** in **Haiti**. Funded by **IDRC**.



**To date the program has trained 150 women, with graduation rate of 86%.** Goal is to train a total of 300 by June 2019. Graduates are beginning to use online work platforms to generate an income.

In terms of **strengthening Internet infrastructure**, the program has:

- Trained 100 IT Professionals on Networking and Security. It will train an addition 50 by June 2019.
- Reinforced the local IXP
- Supported IPV6 deployment in 2 local ISPs
- Promoted Internet Security in Haiti

# Google/LACNIC Workshops

In 2018, LACNIC and Google trained **137 IT professionals in Interconnection and IP Traffic** in Trinidad and Tobago, Guatemala and the Dominican Republic.

In Guatemala the workshop resulted in the creation of a NOG.

In the DR, the workshop supported ongoing talks for the creation of a local IXP.

Skills building to center around

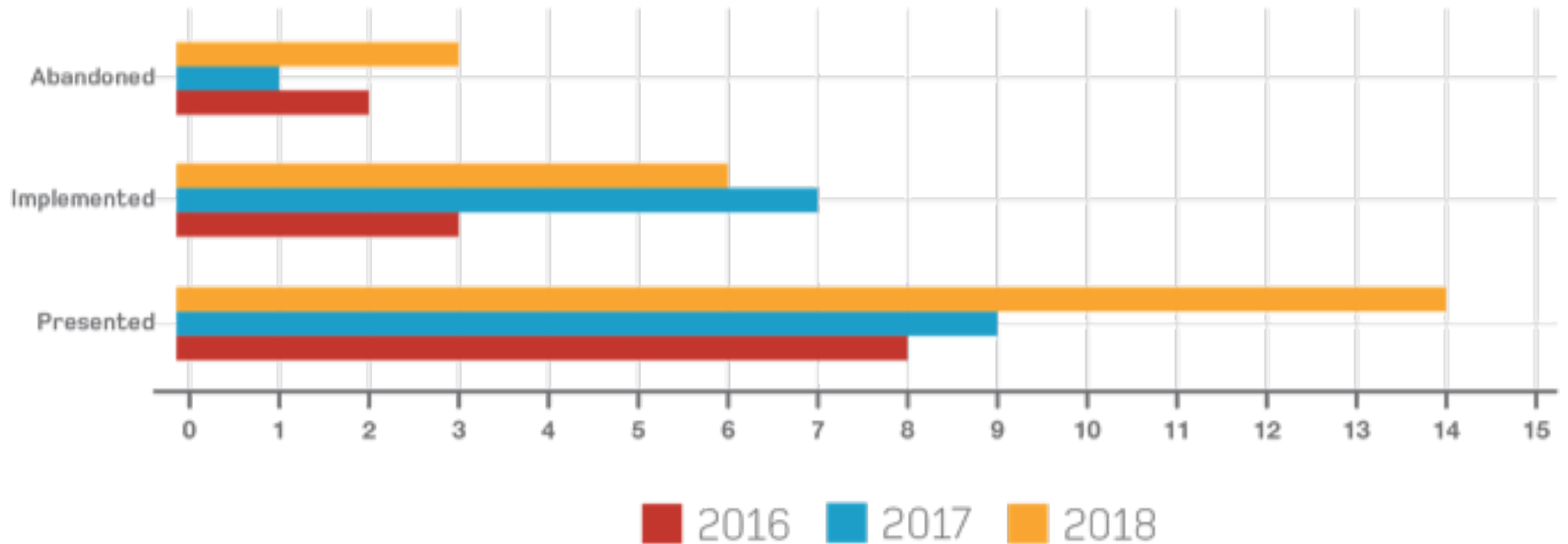
- Management aspects: benefits of local traffic, decision making, trust building and business models.
- Technical aspects: IPv6, BGP, RPKI, best routing practices, open standards and root servers.

As part of the project, **LACNIC and Google also trained 171 Digital Entrepreneurs.**

# Internet Governance and Community Building



# Number of Policy Proposals at LACNIC



# Community Building

## **LACNIC 29**

Panamá - 623 participants - 2.450 remote participants

## **LACNIC 30- LACNOG 18**

Argentina- 565 participants - 2.130 remote participants

## **LACNIC on the Move**

- Smaller local events jointly organized with regional and local Institutions.
  - Asunción, Paraguay : 114 participants
  - Internet week Trinidad & Tobago : 120 participants
- **LOTM 2019**
  - Locations: Curaçao

**Great  
Place  
To  
Work®**

*Second Best Place* to Work in Uruguay in the category of under 150 employees.

Seventh year in a row in the ranking.



# LACNIC 31

## 6th - 10th May 2019

Host: Indotel





# Thank you!

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