

CASE STUDY:
STATE OF CHIHUAHUA



**GOBIERNO
DEL ESTADO
DE CHIHUAHUA**

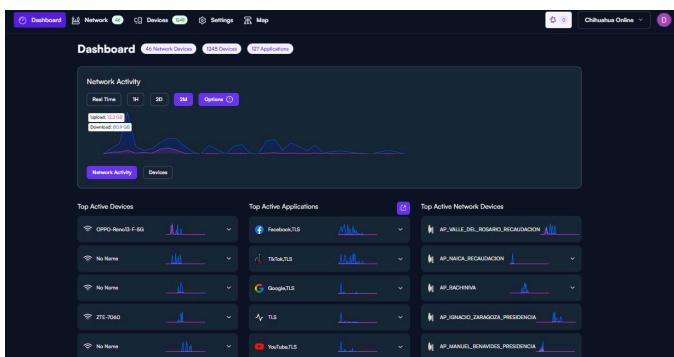


TYCAN Deploys High-Speed Internet in Remote Areas of Chihuahua, Mexico



AP6-Pro Outdoor Installation

TYCAN Telecomunicaciones y Cómputo Avanzados Del Norte in Mexico submitted a bid solicited by the government in Chihuahua, Mexico and won the tender bidding process to provide WiFi infrastructure and connectivity across the state. The project currently consists of 61 isolated points in rural areas throughout the state of Chihuahua. The installation sites were located in very remote destinations. The sites included schools, government agencies, and municipal offices.



Management Interface in Use in Dark Mode

Each of the locations were equipped with an Alta Labs AP6-Pro Outdoor wireless access point connected to a satellite internet system.



AP6-Pro Outdoor Deployed in Chihuahua, Mexico

"The online interface is user-friendly and makes it easy to manage networks with numerous devices. Installation was very simple for us."

- Ing. Viridiana Quezada - Project Manager,
TYCAN



Revenue Collection Office in Valle del Rosario

CASE STUDY:
STATE OF CHIHUAHUA

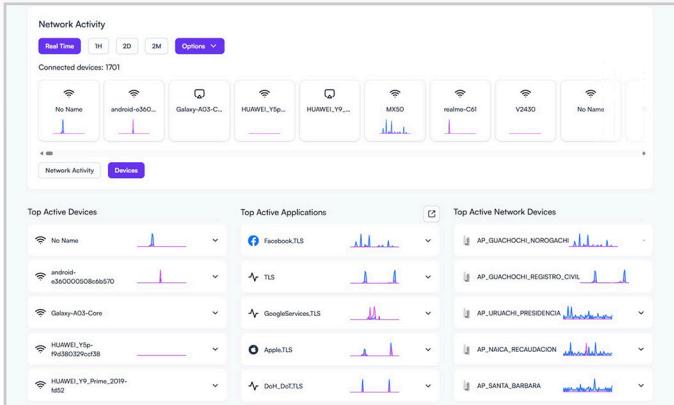


GOBIERNO
DEL ESTADO
DE CHIHUAHUA



AP6-Pro Outdoor Installation in Ocampo

Alta Labs products were selected for use in the project by TYCAN. They tested the Alta Labs equipment and chose the products due to their ease of use and excellent WiFi coverage. The WiFi network went online in October. 1701 devices were online during the first week of implementation.



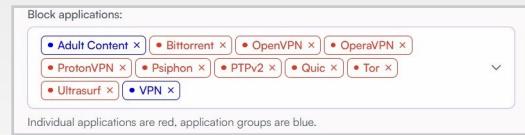
Management Interface During First Week of Deployment



Museo Paquime Casas Grandes Installation

Alta's Powerful Built-In DPI Engine

The Alta Labs access points have a powerful built-in Deep Packet Inspection (DPI) engine. By incorporating this feature directly in the access points, TYCAN didn't need to purchase additional hardware or software to filter out unwanted content on this public network. TYCAN utilized the cloud-based Alta Control management interface to restrict access to unwanted websites, applications, and application types, keeping the network safe for use by users of any age.



Filters Applied to Chihuahua Online

The DPI engine also allows the network administrator(s) to view a breakdown of the apps being utilized on the network. A breakdown of the percentages is presented as well as total download and upload data. This detail is accessible in the Alta Control management interface and via the Alta Networks mobile app.



DPI Engine Breakdown in Management Interface

CASE STUDY:
STATE OF CHIHUAHUA



**GOBIERNO
DEL ESTADO
DE CHIHUAHUA**



AP6-Pro Outdoor Above Revenue Collection Office



AP6-Pro Outdoor Installation in Huejotitán



AP6-Pro Outdoor in Plaza Ferrocarril, La Junta

“With the free Chihuahua Online internet service, it allows us to stay in touch with our family members while we are waiting for our medical appointments.”

- Laura, Children's Hospital, Cd. Juárez

CASE STUDY:
STATE OF CHIHUAHUA



**GOBIERNO
DEL ESTADO
DE CHIHUAHUA**



Alta Labs Hotspot Functionality

The project utilizes Alta Labs Hotspot functionality that allows you to either create your own hotspot or redirect to an external portal. The State of Chihuahua has elected to do the latter in this installation. As is typical with most portals, they ask the customers to enter their name, email address, and accept the terms of their privacy policy to connect to the internet.



Chihuahua Online Free WiFi Here Banner

Chihuahua Online is a free state-run service provided by the state offering free internet in major plazas, public spaces, and government offices.



Chihuahua Online Portal Login Screen

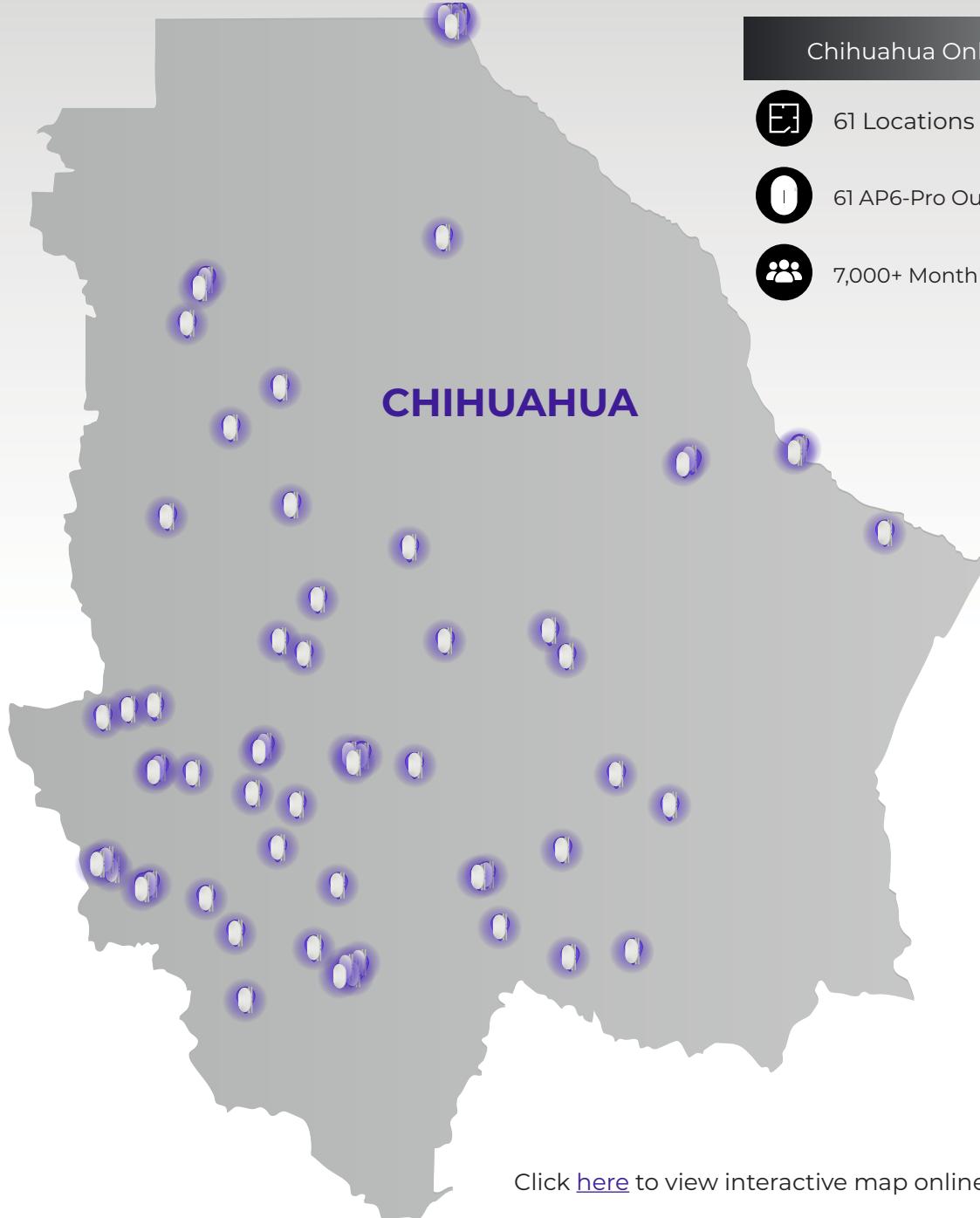
CASE STUDY:
STATE OF CHIHUAHUA



**GOBIERNO
DEL ESTADO
DE CHIHUAHUA**



AP6-Pro Outdoor Deployments



Chihuahua Online Overview



61 Locations



61 AP6-Pro Outdoor Access Points



7,000+ Monthly Users Combined

CASE STUDY:
STATE OF CHIHUAHUA



**GOBIERNO
DEL ESTADO
DE CHIHUAHUA**



AP6-Pro Outdoor Rooftop



AP6-Pro Outdoor Rooftop Installation



AP6-Pro Outdoor Rooftop



AP6-Pro Outdoor in Business Center

CASE STUDY:
STATE OF CHIHUAHUA



**GOBIERNO
DEL ESTADO
DE CHIHUAHUA**



Valle Del Rosario



Plaza Principal in Carichi

“With the Chihuahua Online internet service, we stay connected and informed in this community where we do not have cellular network service.”

- Oscar, End User in Maguarichi, Chihuahua

For More Information

Visit the TYCAN Telecomunicaciones y Cómputo Avanzados Del Norte website at:
tycan.com.mx

Visit the State of Chihuahua's website at:
www.chihuahua.gob.mx

Additional Alta Labs Case Studies
www.alta.inc/case-studies