PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

1. Establish and develop a policy for information and communication technologies that fosters the development of infrastructures and technological instruments for our Nicaraguan families.

2. Advance with the expansion of bandwidth in high-speed internet service and its access throughout the country.

3. Develop new specific regulations and studies that allow the updating and development of telecommunications for the benefit of our Nicaraguan families.
In the period from 2007 to 2020 we have obtained the highest growth in Telecommunications.

Thanks to the Policies adopted by our good Government, we have promoted the development of telecommunications, guaranteeing an environment of trust in the sector and allowing companies to invest in continuing to create Telecommunications access for Nicaraguan families.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Investment in Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>$160,000,000</td>
</tr>
<tr>
<td>2008</td>
<td>$178,000,000</td>
</tr>
<tr>
<td>2009</td>
<td>$99,000,000</td>
</tr>
<tr>
<td>2010</td>
<td>$121,000,000</td>
</tr>
<tr>
<td>2011</td>
<td>$117,000,000</td>
</tr>
<tr>
<td>2012</td>
<td>$109,000,000</td>
</tr>
<tr>
<td>2013</td>
<td>$143,000,000</td>
</tr>
<tr>
<td>2014</td>
<td>$137,000,000</td>
</tr>
<tr>
<td>2015</td>
<td>$264,000,000</td>
</tr>
<tr>
<td>2016</td>
<td>$121,000,000</td>
</tr>
<tr>
<td>2017</td>
<td>$145,000,000</td>
</tr>
<tr>
<td>2018</td>
<td>$150,000,000</td>
</tr>
</tbody>
</table>

Total: $1,744,000,000
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Fixed telephony users</th>
<th>Mobile phone users</th>
<th>Number of Fixed Internet Connections</th>
<th>Number of Mobile Internet Connections</th>
<th>Subscription TV Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>257,588</td>
<td>2,503,051</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>254,438</td>
<td>3,108,854</td>
<td>49,312</td>
<td>521</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>254,686</td>
<td>3,344,563</td>
<td>94,949</td>
<td>7,752</td>
<td>153,016</td>
</tr>
<tr>
<td>2010</td>
<td>258,325</td>
<td>3,962,247</td>
<td>97,307</td>
<td>21,056</td>
<td>178,153</td>
</tr>
<tr>
<td>2011</td>
<td>287,618</td>
<td>4,823,534</td>
<td>116,681</td>
<td>26,719</td>
<td>198,765</td>
</tr>
<tr>
<td>2012</td>
<td>299,123</td>
<td>5,851,723</td>
<td>143,883</td>
<td>31,751</td>
<td>217,610</td>
</tr>
<tr>
<td>2013</td>
<td>324,917</td>
<td>6,808,930</td>
<td>172,389</td>
<td>290,462</td>
<td>239,271</td>
</tr>
<tr>
<td>2014</td>
<td>339,629</td>
<td>7,069,251</td>
<td>145,218</td>
<td>753,701</td>
<td>266,904</td>
</tr>
<tr>
<td>2015</td>
<td>354,017</td>
<td>7,265,542</td>
<td>164,771</td>
<td>1,126,740</td>
<td>294,914</td>
</tr>
<tr>
<td>2016</td>
<td>366,636</td>
<td>7,745,512</td>
<td>177,024</td>
<td>1,443,171</td>
<td>383,834</td>
</tr>
<tr>
<td>2017</td>
<td>375,856</td>
<td>7,304,701</td>
<td>181,838</td>
<td>2,369,527</td>
<td>291,567</td>
</tr>
<tr>
<td>2018</td>
<td>325,821</td>
<td>6,240,345</td>
<td>192,413</td>
<td>2,432,921</td>
<td>296,485</td>
</tr>
<tr>
<td>2019</td>
<td>228,782</td>
<td>5,905,956</td>
<td>216,618</td>
<td>2,672,375</td>
<td>300,015</td>
</tr>
<tr>
<td>2020</td>
<td>235,401</td>
<td>5,961,569</td>
<td>237,048</td>
<td>3,306,666</td>
<td>304,214</td>
</tr>
</tbody>
</table>
Cellular Telephone Coverage 3G Operators.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Broadband - Access - Infrastructure

- The Broadband Program was born in 2016.
- Investment of 50 million dollars.
- IDB and South Korea financing.
- Objective: Expand the fiber optic infrastructure, modernize the Nicaraguan regulatory framework and empower the use of Information Technologies.

- We are finalizing the deployment of fiber optics with a total of 2,580 km, benefiting 93 municipalities in Nicaragua.
- We achieved 60.78% of national broadband infrastructure coverage.
- It is estimated that around 4.9 million people have the possibility of accessing telecommunications services.
Fiber Optic Coverage of the State of Nicaragua.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Broadband - Access - ICT Empowerment

We are contributing with technological equipment and connectivity:

- 100 Telecentres whose beneficiary is: The Nicaraguan Institute of Agricultural Technology.
- Investment: C$21,000,000.00
- Objective: Promote the use of information technologies and train our producers to improve efficiency and productivity.
- Approximate beneficiaries: 4,500 producers
Coverage of Beneficiary Sites of the Nicaraguan Institute of Agricultural Technology.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Broadband - Access - Empowerment Information and Communication Technologies

DEVELOPMENT OF TECHNOLOGICAL APPLICATION - Technological Institute of Agriculture.

OBJECTIVE:

Promote the use of information technology and connectivity through a technological application that improves the productivity and efficiency of our farmers.

Investment: C$10,250.00.00 córdobas.

Beneficiaries: 4,500 producers.
We are contributing technological equipment and connectivity to:

- 149 Health Centers whose beneficiary is: Ministry of Health.
- Investment: C$ 48,203.00.00
- Objective: Promote the use of information technologies in our health centers to improve efficiency and care for our Nicaraguan families.
Coverage of Beneficiary Sites of the Ministry of Health.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Broadband - Access - Empowerment Information and Communication Technologies

DEVELOPMENT OF TECHNOLOGICAL APPLICATION - MINSA

OBJECTIVE:

The design of innovative applications or services related to diagnoses, treatment and electronic health records that use connectivity to reduce maternal and child mortality.

Investment: C$ 10,250,000.00 córdobas

Beneficiaries: 7,000 doctors from health centers.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Infrastructure Program for the Caribbean Region - CARCIP
INFRASTRUCTURE - ACCESS

- The CARCIP Program was born in 2018
- Investment of 20.1 million dollars.
- Objective: Expand the infrastructure of the Caribbean Coast and empower the use of ICT in the region.

- We have connected **15 communities** of the RACCN, RACCS and the department of Río San Juan with an investment of: C$ 119,700,000.00.

- We are currently carrying out the deployment of a 115 km Fiber Optic section between El Rama - Kukra Hill and Laguna de Perlas in the RACCS that will benefit **5 communities**.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Infrastructure Program for the Caribbean Region - CARCIP INFRASTRUCTURE - ACCESS

- We will be enabling Broadband Access Networks to communities located in the Waslala - Siuna - Rosita - Puerto Cabezas - Waspam sections, using fiber optic as the Broadband program as transportation. With an investment of: C$ 30,840,000.00, benefiting 32 communities in the Caribbean Zone.

- This will allow Telecommunications access to our Nicaraguan families in the Caribbean Zone.
We have enabled infrastructure and Internet access in 14 Health Units in Rural Areas of the Caribbean Coast, improving the health services provided to our Nicaraguan families. With an investment of: C$ 6,800,000.00 córdobas.

PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

Infrastructure Program for the Caribbean Region - CARCIP

INFRASTRUCTURE - ACCESS - Empowerment of Information and Communication Technologies

- We have enabled infrastructure and Internet access in **14 Health Units** in Rural Areas of the Caribbean Coast, improving the health services provided to our Nicaraguan families. With an investment of: C$ 6,800,000.00 córdobas.

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<tr>
<td>5. Las Tatas</td>
<td>10. Awastingni</td>
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</tbody>
</table>
We are starting the creation of Digital Classrooms in 5 schools in the Caribbean area through an inter-institutional effort between TELCOR and MINED with an investment of: C$ 7,000,000.00 córdobas, benefiting approximately 1,300 students and 52 teachers.

- 2 in Waslala
- 2 in Siuna
- 1 in El Tortuguero
We are conducting training and certifications in soft skills, (communication, negotiation and innovation); English skills and world-class technical certifications.

Objective: That our low-income youth can opt for better jobs.

Investment: C$ 53,221,000.00 córdobas.

Beneficiaries: 5,0000 Nicaraguan youth.
The following goals have currently been reached:

**ENGLISH COURSES:**
Trained: 1,294 young people.
In training ending in December 2020: 1,600 people.

**SOFT SKILLS:**
Trained: 1,710 young people.

**TECHNICAL CERTIFICATIONS:**
Trained: 270 young people.
In training ending in December 2020: 780 young people.

For an execution of 81.8% of the indicator of training 5,000 young people.
INNOVATION CENTER FACILITIES:

The fundamental objective of the Innovation Centers is to create a physical space with technological equipment, furniture and technical assistance, which serves the population as an instrument to incentivize and promote innovation through the use of information technologies, to generate innovative solutions to daily problems in matters of productivity, health and education.
We have inaugurated 2 Innovation centers in Bilwi and Bluefields. We contributed with furniture, technological equipment and connectivity, with an investment of: C$ 14,650,600.00 córdobas for the benefit of our young people.

We are about to start the inaugurations of four additional innovation centers in:

- Unan University - León: 3,000 young people benefited.
- BICU University of Bonanza: 1,200 young people benefited.
- URACCAN University of Siuna: 2,500 young people benefited.
- FAREM University of Estelí: 1,500 young people benefited.

With an Investment of: C$ 8,100,000. córdobas.
PUBLIC TELECOMMUNICATION POLICIES AND NATIONAL COVERAGE IN NICARAGUA

CEABAD - CENTER FOR ADVANCED STUDIES OF BROADBAND

Empowerment of Information and Communication Technologies.

Actions:

- Installation of the Center for Advanced Broadband Studies for Development (CEABAD) in conjunction with South Korea in 2014.

This center has trained 1,556 employees face-to-face and 1,408 officials virtually on information technology issues and global trends in telecommunications.
"The development of Information and Communication Technologies (ICT), particularly Broadband, contribute to the unity of Latin American and Caribbean peoples."

Comandante President Daniel Ortega Saavedra
Closing of the Regional Forum "Connectivity for All" in 2016