Caribbean Communications Infrastructure Program (CARCIP)

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Brief History

• 1989: Established by CARICOM to be the inter-governmental telecommunications policy instrument for the Caribbean

• 2003: Defined a new strategic direction to address issues of information and communications technologies (ICT)

• 2004: Expanded Membership to include Private sector organisations

• 2013: Inaugurated Caribbean Regional Infrastructure Programme (CARCIP)
CTU Members

Anguilla  Guyana
Antigua/Barbuda  Jamaica
Bahamas  Montserrat
Barbados  St Kitts/Nevis
Belize  St Lucia
British Virgin Is.  St Maarten
Cayman Is.  St. Vincent &
Cuba  The Grenadines
Dominica  Suriname
Grenada  ARIN
Trinidad & Tobago  Bureau Telecommunicatie en Post (Curacao)
Turks and Caicos  Digicel (Trinidad & Tobago)

Eastern Caribbean Telecommunications Authority
LIME (Barbados)
International Amateur Radio Union (Region2)
Telecommunications Authority of Trinidad and Tobago
CTU Mission

- To create an environment in partnership with members to optimize returns from ICT resources for the benefit of stakeholders.
A World Bank Funded Project

Coordinated by the Caribbean Telecommunications Union

Objective:
To foster the development of a regional sustainable ICT-enabled framework which will bridge the remaining gaps in the Caribbean broadband communications infrastructure.
• Strategic Outcomes:
  1. Increased access to regional broadband backbones to support facilities and networks that provide connectivity to international and regional markets.

  2. Advancement of ICT-Led Innovation and the development of an ICT-enabled services industry in the Caribbean region.
in CARICOM’s Regional Digital Development Strategy (RDDS) to support a regional approach to holistic development of an ICT-enabled framework through a Regional programmatic approach - countries may join on a need and readiness basis components built to allow countries to start with a core set of activities tailored to their particular needs but fitting into the broader regional strategy
## CARCIP Countries

<table>
<thead>
<tr>
<th>Countries</th>
<th>US $</th>
</tr>
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<tbody>
<tr>
<td>Grenada</td>
<td>10M</td>
</tr>
<tr>
<td>Saint Lucia</td>
<td>6M</td>
</tr>
<tr>
<td>Saint Vincent and the Grenadines</td>
<td>6M</td>
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<tr>
<td><strong>TOTAL Loans:</strong></td>
<td><strong>22M</strong></td>
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### Supporting Organisations

<table>
<thead>
<tr>
<th>Organisation</th>
<th>US $</th>
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<tbody>
<tr>
<td>Regional Coordination</td>
<td></td>
</tr>
<tr>
<td>Support for Regional Connectivity Infrastructure</td>
<td>500K</td>
</tr>
<tr>
<td>Support for ICT-Led Innovation</td>
<td>350K</td>
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<tr>
<td>Support for Regional Connectivity Infrastructure</td>
<td>650K</td>
</tr>
<tr>
<td>Support for ICT-Led Innovation</td>
<td></td>
</tr>
<tr>
<td>Total Grants</td>
<td>3M</td>
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GAP: Projected Broadband Demand exceeds Supply

Grenada \ St. Vincent and the Grenadines

Related Projects:
Submarine Fiber-Optic System (Foundation for Regional Backbone)

Benefits
Integrated Regional Networks
Affordable Connectivity
GAP: Inadequate Government Infrastructure

St. Vincent and the Grenadines \ Grenada \ St. Lucia

Related Projects:
Government Networks that offer:
- Pricing Sustainability
- Scalability
- Security (Protect National Interests)
- Support the Growing Demands of E-Government, Education and Public Safety

Benefits
Connectivity for Government Offices, Health Centers, Schools and Universities
Development of National and Regional Emergency Communications Networks
GAP: Inefficient Traffic Routing
St. Vincent and the Grenadines \ Grenada \ St. Lucia

Related Projects:
- Expanded IXP with Supporting Regional Data Center
- Off-Load International Traffic from Submarine Infrastructure / Transit

Benefits
- Position Region for Cloud Computing Trends
- Cloud Computing offers Compelling IT Value Proposition
- Virtualization of Servers and Devices (Reduce Costs via Scale and Resource Pooling)
- Business, Government and Educational Opportunities
GAP: Inefficient Traffic Routing
St. Vincent and the Grenadines \ Grenada \ St. Lucia

Related Projects:
- Expanded IXP with Supporting Regional Data Center
- Off-Load International Traffic from Submarine Infrastructure / Transit

Benefits
- Reduction in Transit costs
- Improved Quality / Latency
- Opportunity to Combine Regional Internet Exchange with Data Center
- Attract Content Sources / Content Delivery Networks ("CDN")
  - Smart Caching
  - Infrastructure as a Service ("Iaas")
  - Software as a Service ("SaaS")
GAP: Innovation and Entrepreneurship
St. Vincent and the Grenadines \ Grenada \ St. Lucia

**Related Projects:**
- Expanded IXP with Supporting Regional Data Center
- Off-Load International Traffic from Submarine Infrastructure / Transit

**Benefits**
- ICT Employment Opportunities
- Cloud and Virtualization
- Application Development & Web Host
GAP:
Innovation and Entrepreneurship
St. Vincent and the Grenadines \ Grenada \ St. Lucia

Related Projects:
ICT-Led Innovation and Capacity Building Workshops
Business Incubator Programmes
Skills Certification and Training Programmes

Benefits
Improved awareness and use of technology as the preferred interface with government and private sector.
Certification and Training of skilled ICT professionals gainfully employed in the ICT Sector.
Increased Occupancy Rate of Business Incubation Facilities supported under Project.
CARCIP Governance Structure

World Bank (IDA) - Regional Steering Committee - CTU

Regional Level: ECTEL - CKLN

National Level: National Steering Committee

IDA GRANT FUNDED

IDA LOAN CREDIT
Synergies and Relationships

- National Backbone Broadband GovNets (VPN)
- TA for Business Incubation
- TA Skills Assessment Development / Certification

Participating Countries: SLU; SVG; GND (National Implementation & Reporting)

Regional Agencies: CTU; ECTEL; CKLN (Coordination, Collaboration & Sharing)

- share best practices and promote knowledge exchange
- promote and foster synergies and shared platforms
- support project implementation
- guidance and technical assistance to develop National ICT strategies
- Implementation support of connectivity programs, (i.e. IXPs, Regional Networks & ICT-Led innovation)

Country Systems National Transformation Needs
- Technical Assistance
- Capacity Building

Stakeholder Expectations
- Knowledge Exchange
- Harmonization

Regional Support for Open Access & PPP
- IXP Support, Bandwidth Commercialization, Support for National Research & Education Networks

Collaboration, Coordination, Commitment
Contact Information

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Thank you