

FRONTIERS

//Personal

FRONTIERS

//Local

FRONTIERS

//National

FRONTIERS

//Global

FRONTIERS

//Interplanetary

THE WHITE HOUSE

FRONTIERS

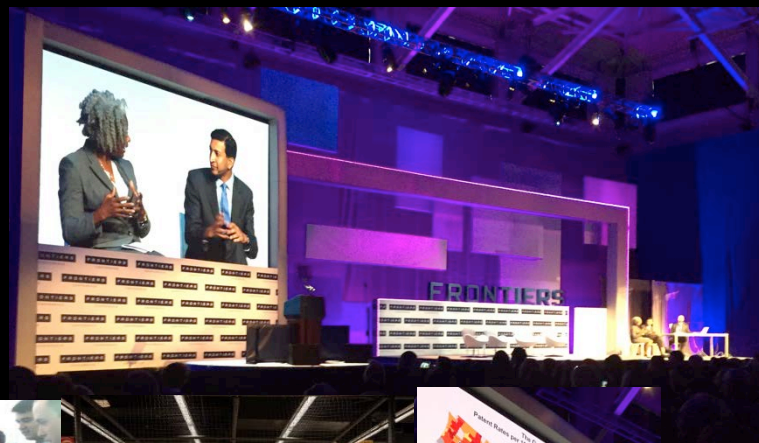
CONFERENCE

OCTOBER 13, 2016

#WHFrontiers

HOSTED BY

Carnegie Mellon University University of Pittsburgh



The Opinion Pages | OP-ED CONTRIBUTORS

The New York Times

Dalai Lama: Behind Our Anxiety, the Fear of Being Unneeded

By THE DALAI LAMA and ARTHUR C. BROOKS NOV. 4, 2016

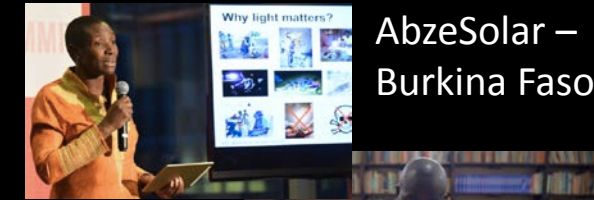


UNGA Annual Meeting Sustainable Development Goals #GlobalGoals





Solutions-Summit @UN – SDGs #GlobalGoals
>800 entries of solutions-in-progress
from >100 countries in 2 weeks



**AbzeSolar –
Burkina Faso**

**Africa Prisons
Project – Uganda**



**BioCarbon Engineering –
Reforestation - UK**



**Floating Fab Lab –
Peru/Brazil**



Innovation Places: Makers / Shared Space Connected Communities



The 21st C Library—Community Hub for learning, making, collaboration

America's **123,000 libraries** are core community anchor institutions. In addition to lending books, movies, and music (Wi-Fi hotspots, tablets, etc.), libraries are providing:

- job training and placement assistance (access point for digital-only job applications and summer youth)
- digital and financial literacy
- citizenship information and training
- trusted community spaces for civic engagement
- welcoming spaces for families + youth after school
- often the only place where some individuals have online access
- emerging activities (makerspaces, open data, OER, community hack-a-thons)

Maker and Innovation Spaces; Learning Labs

**Nation of Makers:
National Week of
Making June 17-23**



Through **ConnectED** and **E-Rate Modernization** efforts, the nation's **9,082 public library systems** (with over **16,000 central/branch libraries**) have access to increased funding for high speed broadband and can now seek support for Wi-Fi infrastructure. Goal: 99 % of students have access to high speed broadband

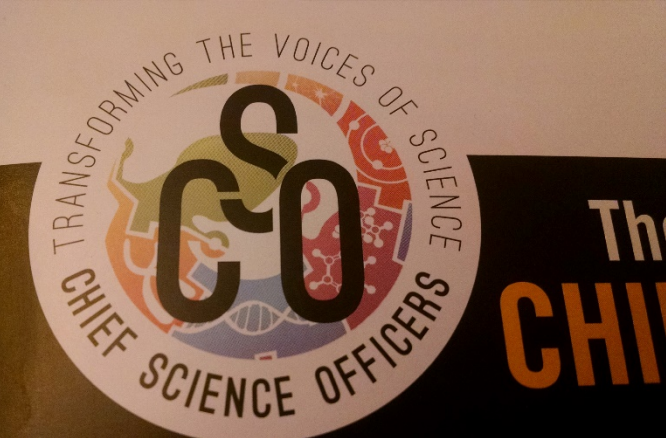


Access to eBooks – using technology to better meet the needs of all learners.



Police Data Initiative (PDI) and Data Driven Justice (DDJ)

- Communities of Practice -



AZ: Chief Science Officers

138 6th – 12th Grade Students, Elected by Peers



2016-2017

The 2016-17 CSO season begins when a student wins their school's CSO election and successfully completes the training institute. **QUARTERLY**, CSOs engage in at least one community event or an "all-call" statewide cabinet meeting.

MONTHLY, CSOs meet with school staff and SciTech Jedi mentors. **WEEKLY**, students interact online with their fellow CSOs.

IMPOR

SPRING

APRIL

MAY 3

JUNE

JULY

AUG -

AUG -

SEPT

OCT

DEC

JAN -

JAN

FEB

FEB

SPR

MAY







“When I took office, one of my top priorities was to apply the lessons we’d learned in our innovative high-tech campaign, to make the federal government smarter, more innovative, more transparent, and more responsive to the American people we serve.”

- President Obama

Opportunities and examples:



We the People

15 million users

350,000 petitions

22 million signatures

petitions.whitehouse.gov

The **Digital Analytics Dashboard** shows visitors on government websites in real time:

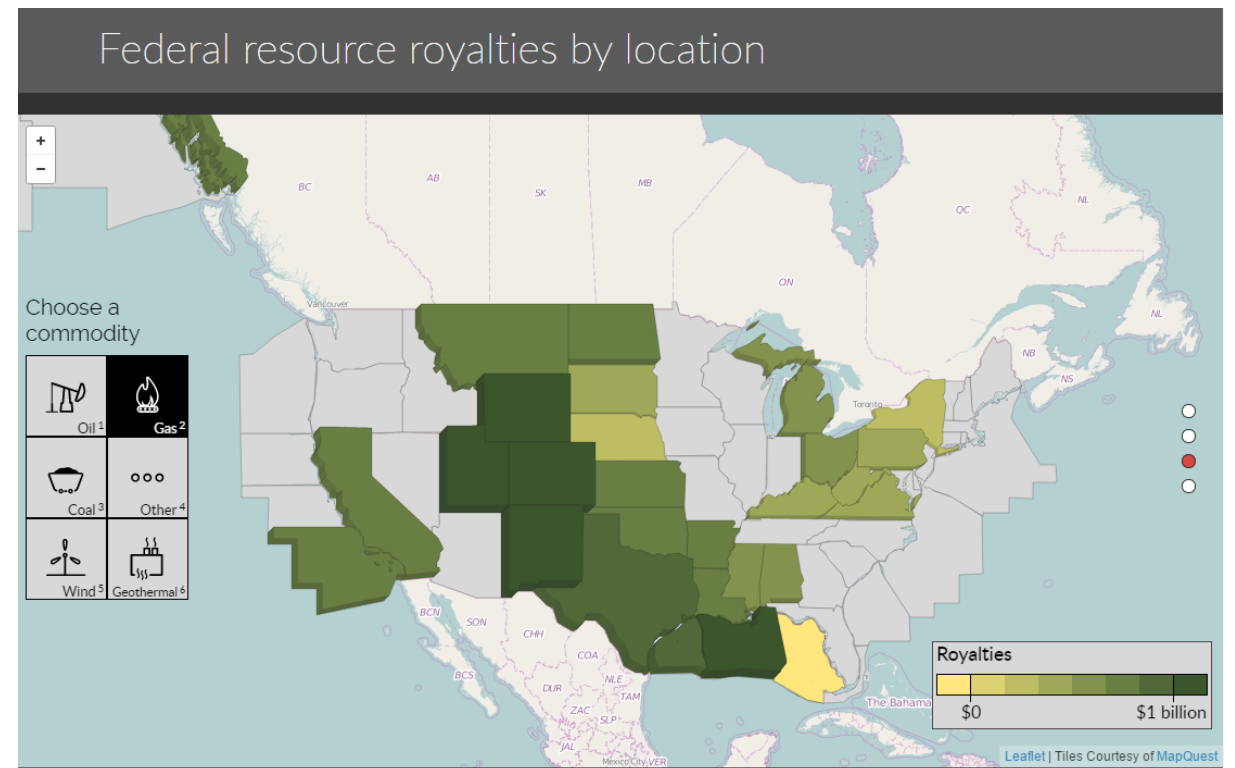
analytics.usa.gov



EITI

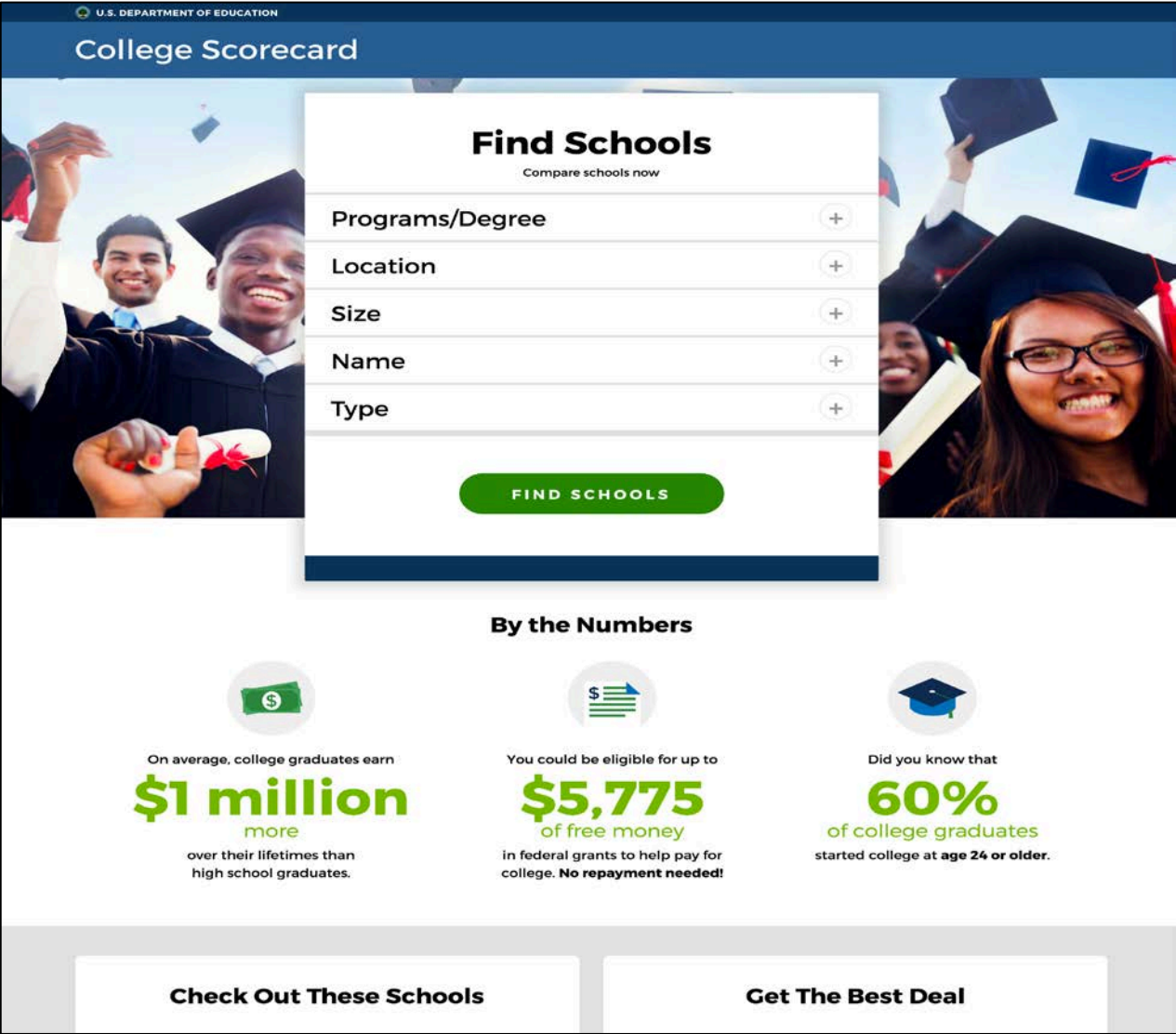
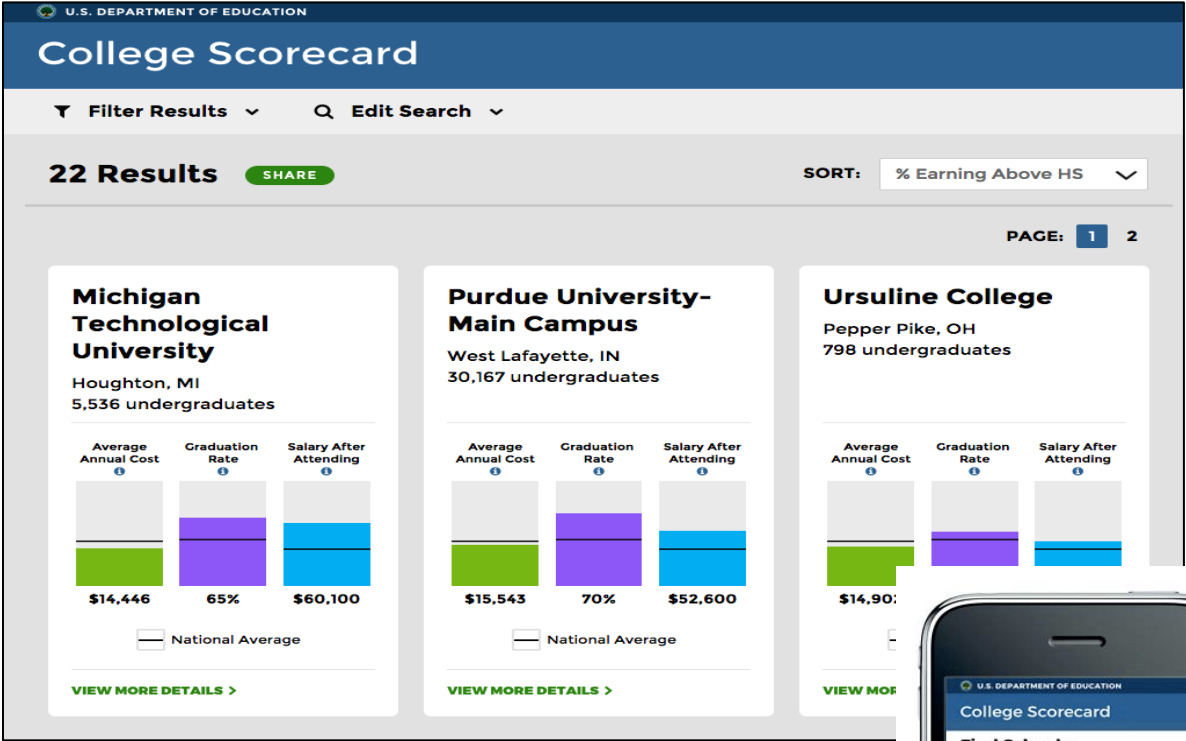


The **Extractive Industries Transparency Initiative** website shows live data on natural resource revenues by sector and location:



useiti.doi.gov

Dept of Education with embedded USDS@ED : Help students and counselors make informed college choices



3rd Party Apps/Services/Features

- Curated APIs available
- Open Source available
- Outreach/Engage Developer Community

Technology Policy // TQ

Open Source *Open Education* *Data Interop*

Regulatory Modernization *Automation* *Copyright*

Spectrum *Job Skills*

Trade *Open Government* *Security Research*

Patents

Encryption *Net Neutrality* *Public Domain*

Public Sector *Retention*

Digital Playbook *Broadband Connectivity*

Open Government Partnership



Five Year Celebration of the **Open Government Partnership (OGP)**
(launched in 2011 by President Obama and 7 other heads of state and a dozen civil society organizations).

Includes 70 countries and hundreds of civil society organizations all working together to **promote transparency, empower citizens, fight corruption**, and transform the way that governments **serve and engage** with the public.



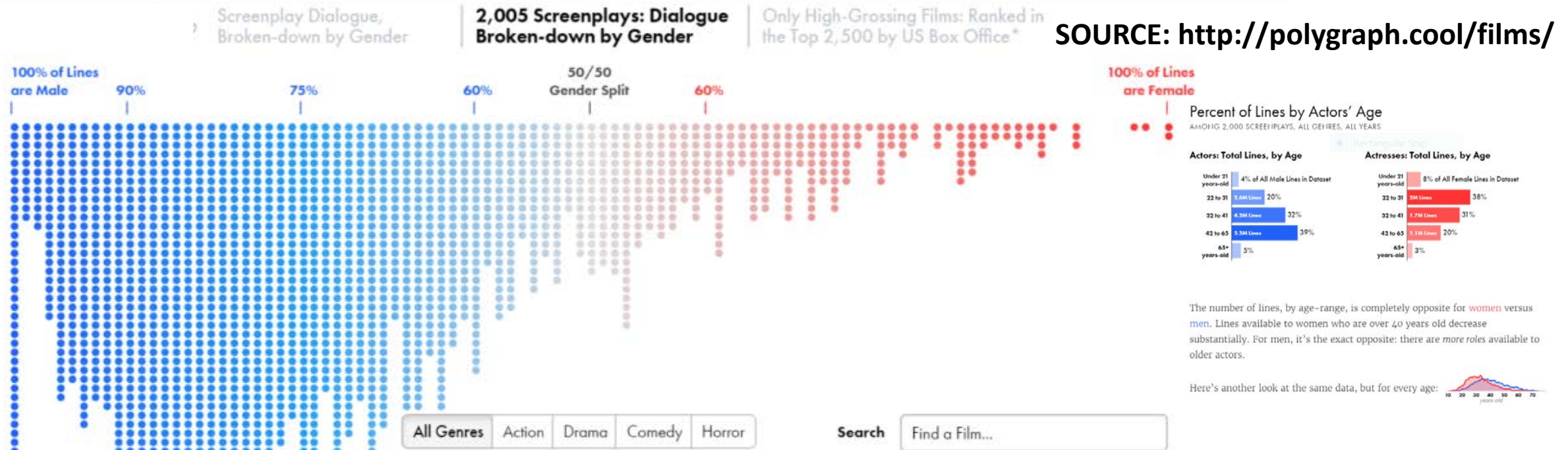
Africa Regional Meeting in Cape Town in May 2016.



Collaboration and Capacity Building:
In February 2015, France convened nine Francophone countries (Belgium, Benin, Burkina Faso, Ivory Coast, Haiti, Mauritius, France, Mali, and Senegal) for **#HackFrancophonie** to share and develop tools from open government data to improve democratic life, agriculture, health, and education.

OGP Summit 2016 in Paris
December 7-9, 2016

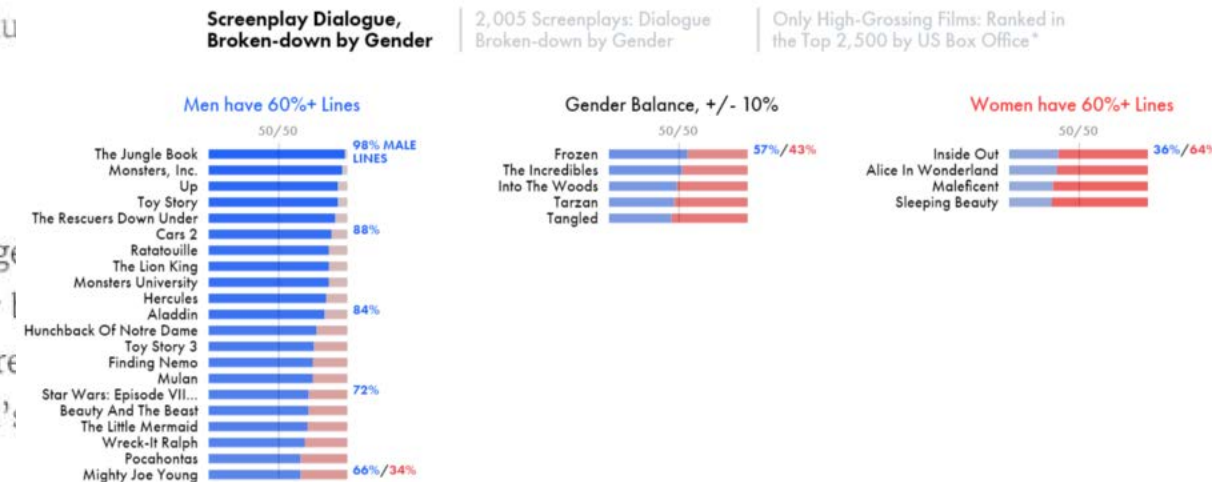
Data: Unconscious and Institutional Bias in Media example



believe the results are still directionally accurate, but individuals definitely have errors.

Each screenplay has at least 90% of its lines categorized by gender. If you notice a missing character from the analysis, their lines may be in the remaining 10%. If a character was cut from the film but is present in the screenplay, we inferred his or her gender based on the script's context.

Across thousands of films in our dataset, it was hard to find a subset that didn't over-index male. Even romantic comedies have dialogue that is, on



Accelerate International Connectivity: Global Connect



Global Connect is a U.S.-led multi-stakeholder initiative launched by State to make Internet access fundamental to development efforts and connect at least another 1.5 billion people by 2020.

Why Global Connectivity Priority?

- Unlock Talent and Innovation for Economic and Social Development
- Stabilization, Security, Opportunity, Prosperity, Collaboration

“It Takes A Network to Build a Network”

1. Help **development institutions** **prioritize** digital access lending and projects in development strategies
2. Encourage **countries** (finance ministers and other leaders) to prioritize connectivity and adopt policies that **will unlock digital growth**, foster an **open/accessible Internet**. Support countries to commit to **integrating connectivity** as a key part of national development strategies on all topics.
3. Support engagement of **experienced network technical talent** to **capacity** building local talent for **best practices**. Develop **advanced reference network designs** in **collaboration with regional partners**.



Accomplishments

- **Prioritizing Connectivity:** 40+ Countries, and major tech industry/nonprofits/development banks committed to: (1) prioritizing connectivity, (2) fostering an open and accessible Internet, and (3) implementing dig once/cross-sectoral policies that promote access.
- **Financial Commitments:** 65 new/ongoing initiatives valued at more than **\$20 billion**.
- **Working Groups:** Kicked off regional WGs to continue recommending and pushing region-specific solutions, including IEEE engagement.
- **Capacity Building:** Development organizations hiring network tech talent.

