

EUTELSAT COMMUNICATIONS

Chad REN Atelier

Lessons from South Korean ICT and Chad Ways to go…

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Kevin CHOI

kchoi@eutelsat.com
+33 6 8462 0117

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Chad vs. South Korea



Source: Wikipedia	Chad	South Korea	Chad / S. Korea
Independence	11 Aug. 1960	15 Aug. 1945	15 years younger
Surface Area [km^2]	1,284,000 km^2	100,032 km^2 (Korea: 219,140 km^2)	12 times bigger
Water [%]	**1.9 % (24,396 km^2)**	**0.3 % (301 km^2)** (Korea 2.8%)	81 times more
Population	10 Million	50 Million (Korea 74 Million)	1/5
GDP (PPP 2011) [USD] Total Per capita	19,543 B.$ **1,865 $**	1,755,000 B.$ **34,777 $**	1/20 (5%)
GDP (nominal) [USD] Total Per capita	9,344 B.$ **891 $**	1,271,000 B.$ **25,189 $**	1/28 (3.5%)
Military spending	2.0% GDP (**186 B.$**)	2.6% GDP (**33,000 B.$**)	
Military Soldiers	30,000 soldiers (3 million fit for service)	650,000 soldiers (3.2 milllion reserve)	
Literacy	~ 33%	> 99%	

Chad vs. South Korea



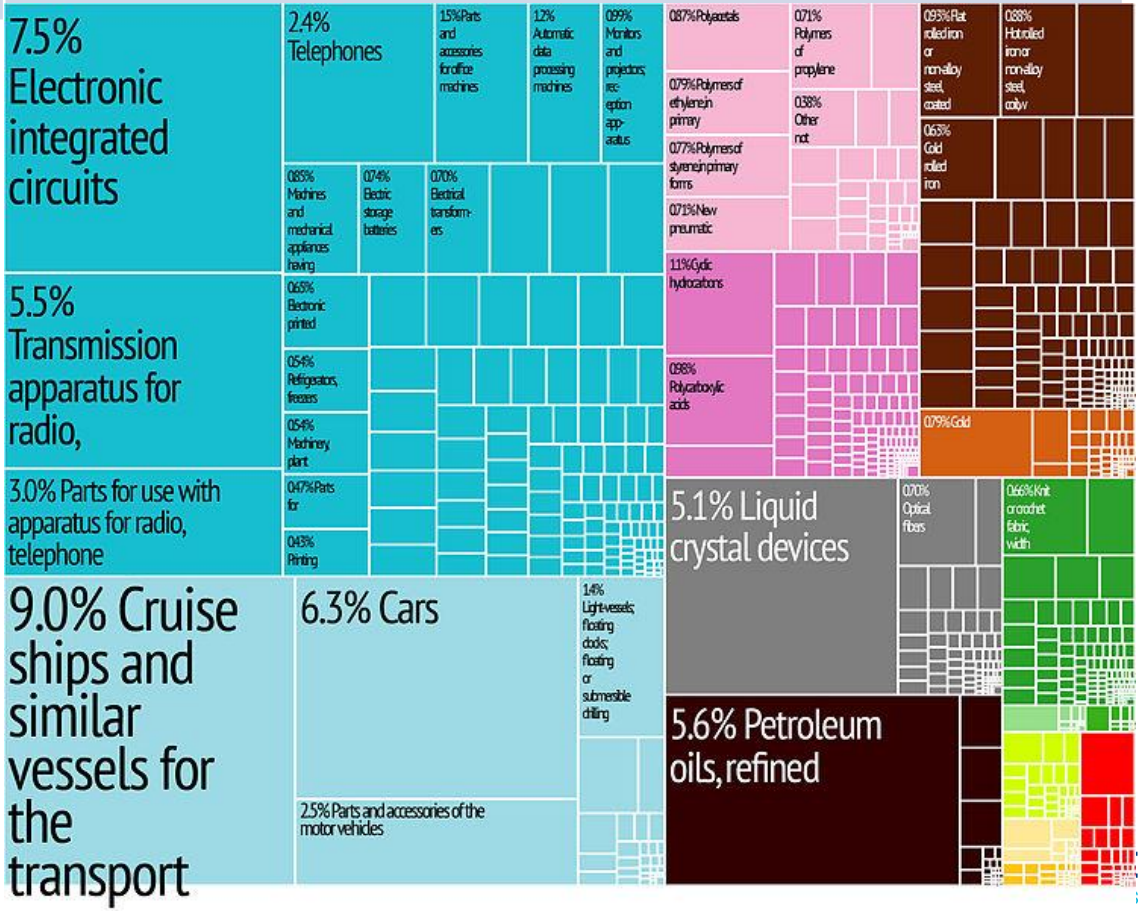
Source: Wikipedia	Chad	South Korea	Chad / S. Korea
Language	French / Arabic / Hausa *+ 100 other languages*	Korean	
Ethnic Group	27.7% Sara 12.3% Arab 11.5% Mayo-Kebbi 9.0% Kanem-Bornou 8.7% Ouaddaï 6.7% Hadjarai …	98.7% Korean	
Religion (in %)	**55% Muslim** 22% Catholic 18% Protestant 3% None 1% Folk 1% Other	**46% None** **23% Buddhist** 18% Protestant 11% Catholic 1% Folk 1% Other	

Chad vs. South Korea



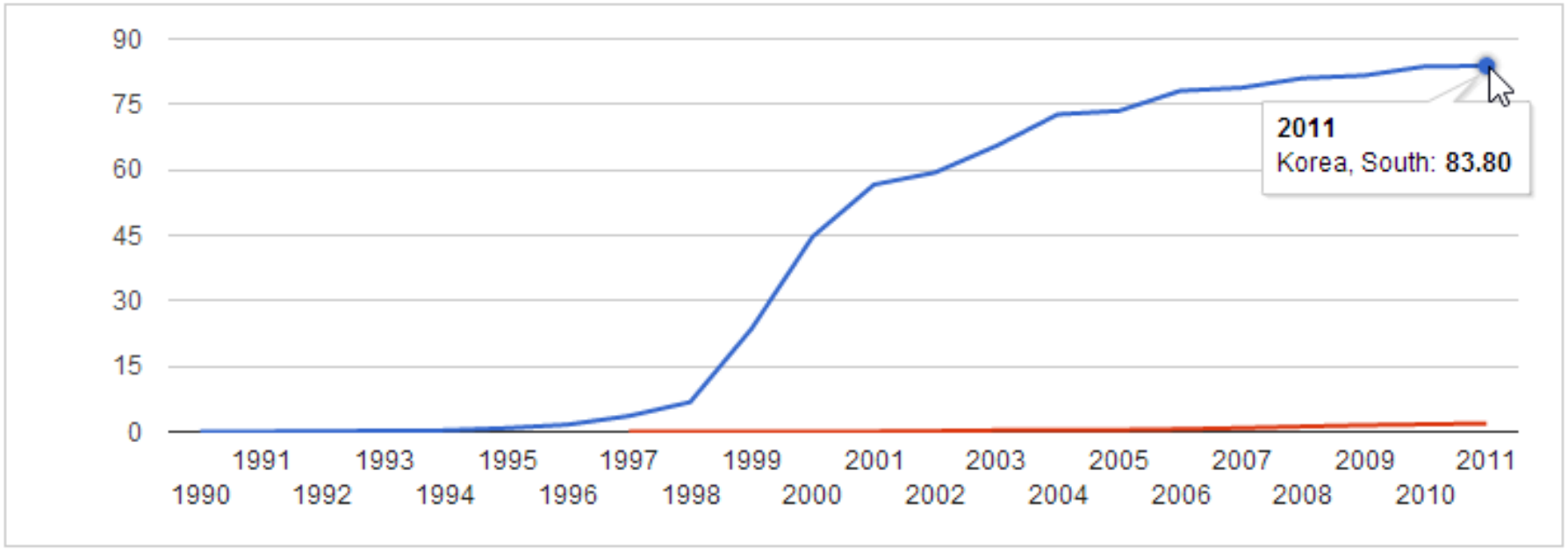
	Chad	South Korea
Import	**3.9 Billion $** (2012)	**520.5 Billion $** (2012)
Export	**4.9 Billion $** (2012) 96 % Crude Petroleum	**548.2 Billion $** (2012)





Internet Users per 100 people

Chart: Internet users (per 100 people) Korea, South

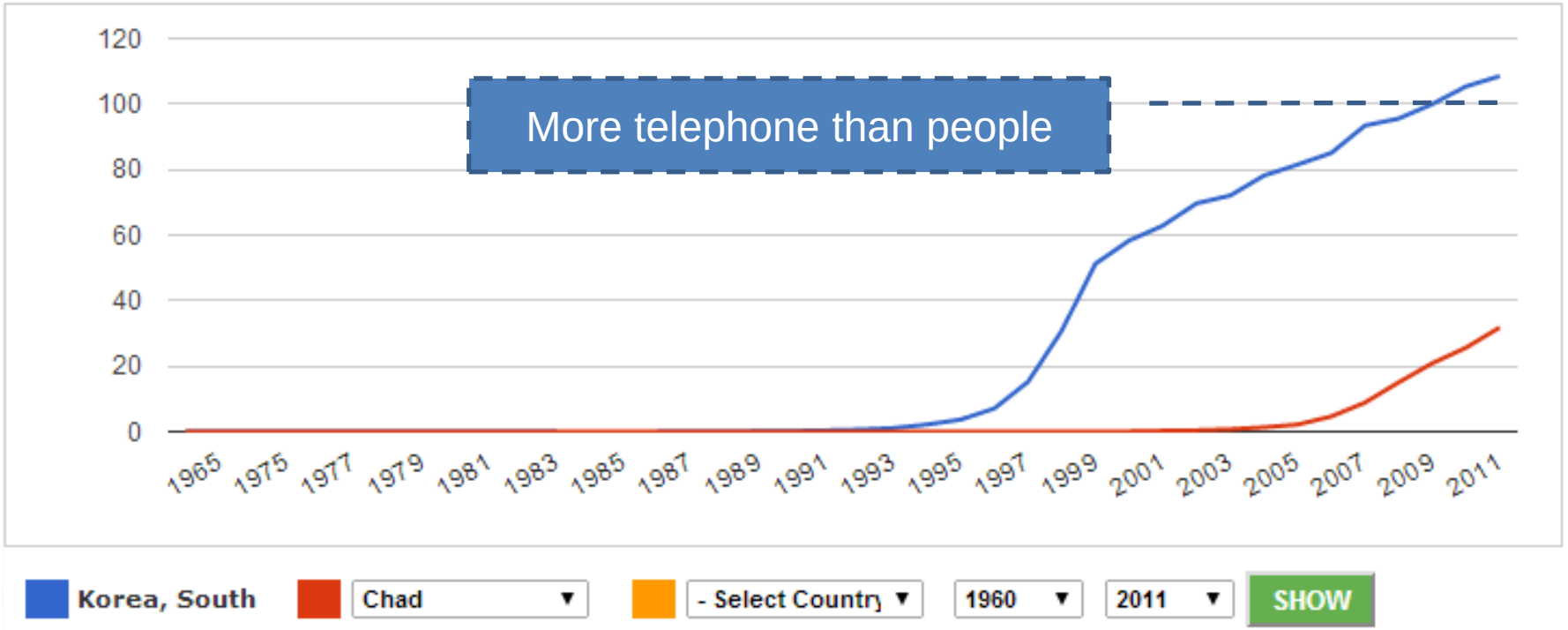


Korea, South | Chad | - Select Country | 1990 | 2011 | SHOW

This chart displays the development of Korea, South Internet users (per 100 people) from 1990 to 2011. Select a country in the menue to compare Korea, South Internet users (per 100 people) to Internet users (per 100 people) in other countries.

Mobile Cellular Subscriptions per 100 people

Chart: Mobile cellular subscriptions (per 100 people) Korea, South

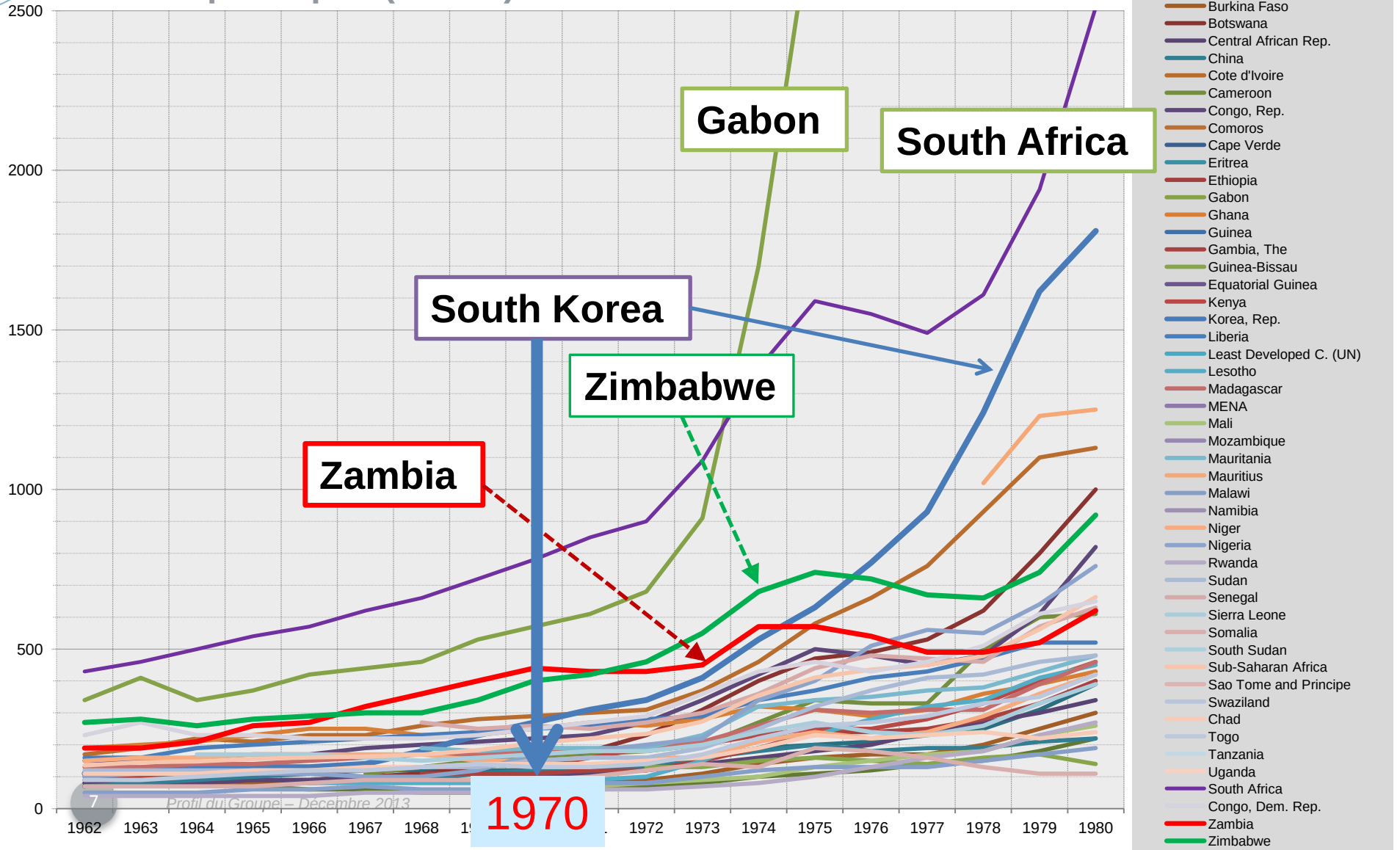


Korea, South | Chad | - Select Country | 1960 | 2011 | SHOW

This chart displays the development of Korea, South Mobile cellular subscriptions (per 100 people) from 1960 to 2011. Select a country in the menue to compare Korea, South Mobile cellular subscriptions (per 100 people) to Mobile cellular subscriptions (per 100 people) in other countries.

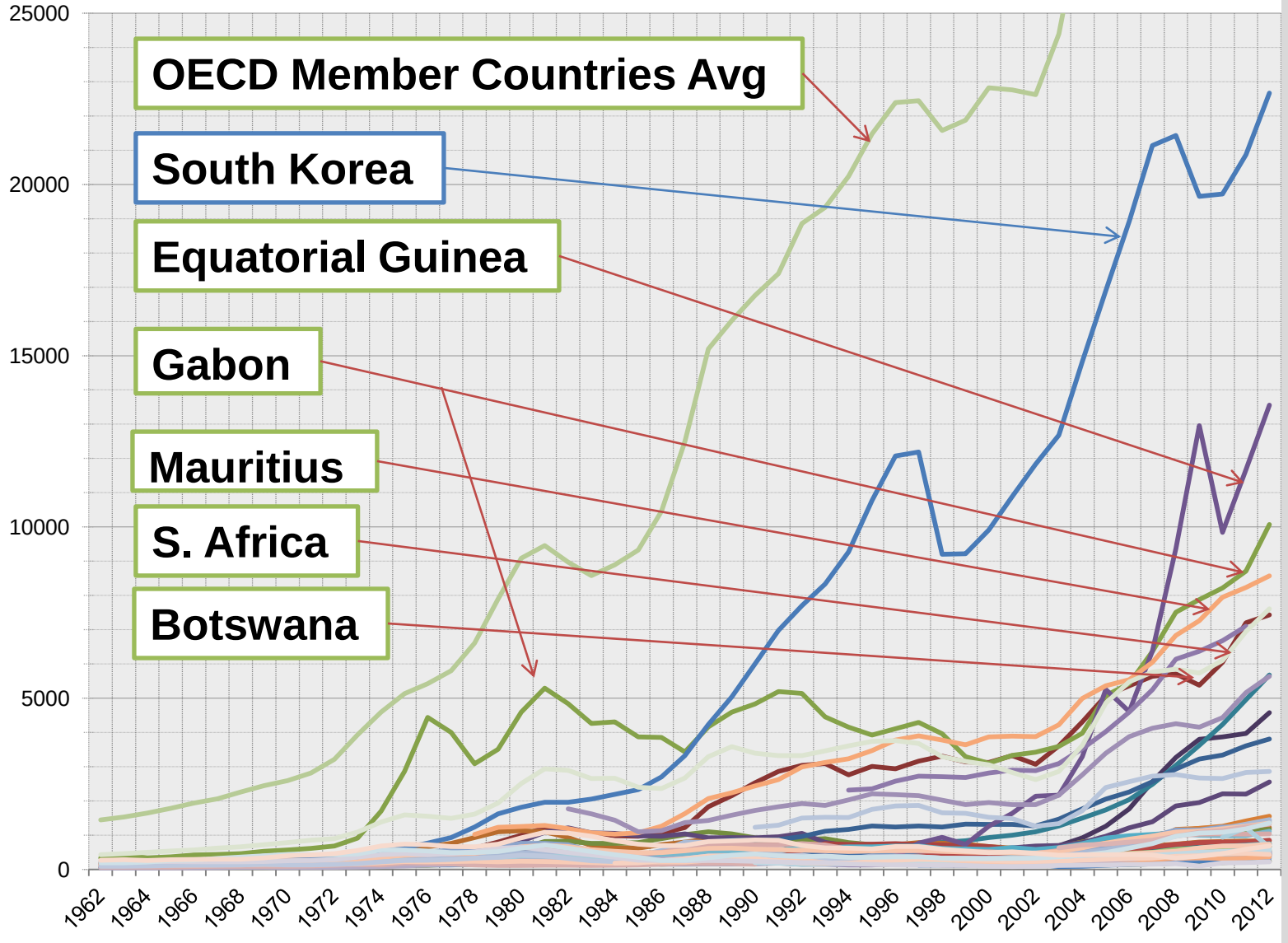
Korean Development

➔ GNI per capita (~ 1980)



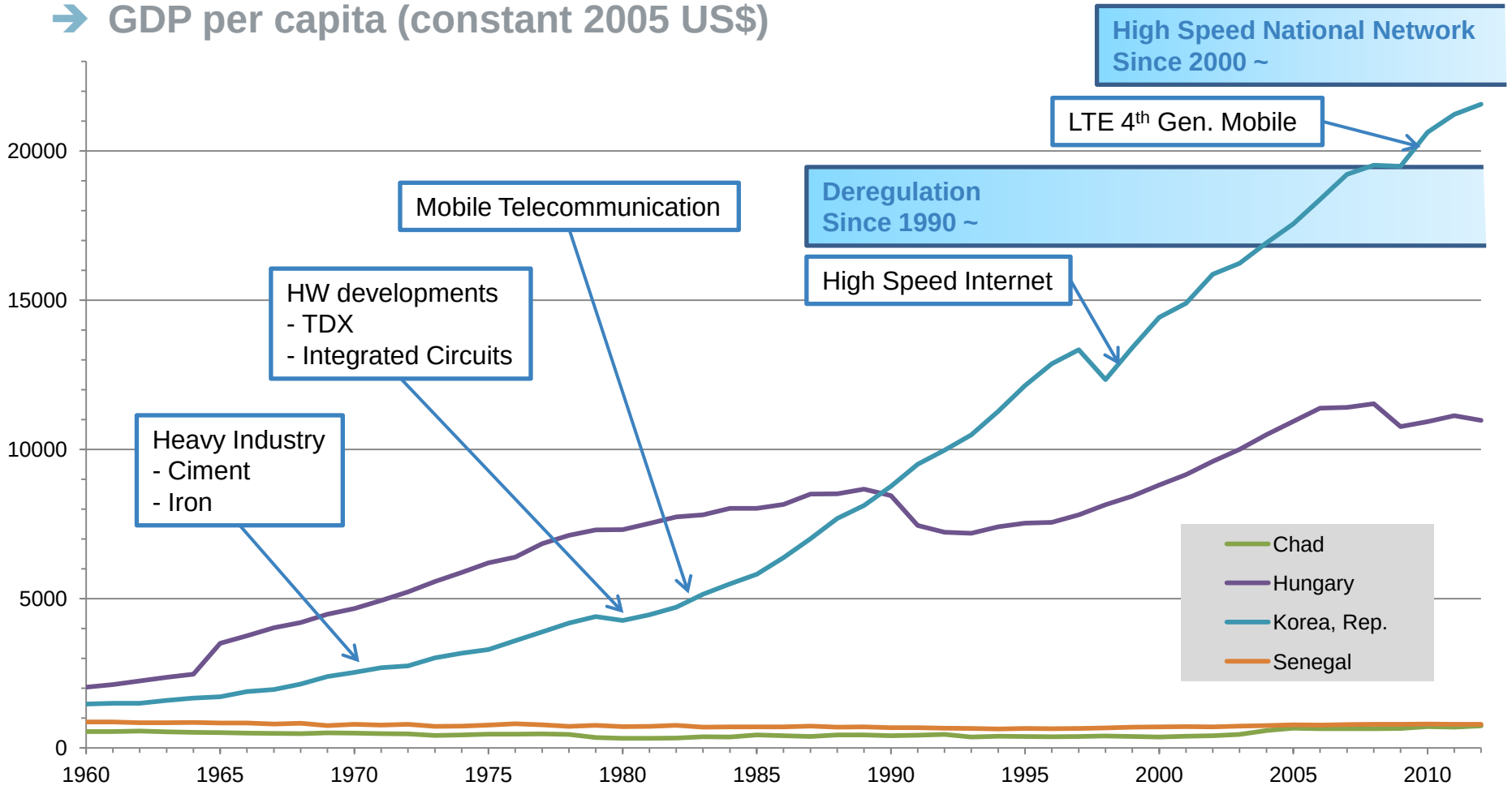
Korean Development

GNI per capita (~ 2012)



Korean ICT Investment

GDP per capita (constant 2005 US$)



ICT Investment & Benefits

➔ ICT Investment Categories

- Network Infrastructure – Telephone, Mobile, Internet, Value Added Services, …
- Equipment / Software Development
  - Information Technology Equipment – Computers & Related Hardwares
  - Communications Equipment
  - Software

➔ 1st necessity: Infrastructure

- Economic Development vs. Network Infrastructure
  - No Education + Research ➔ No Knowledge, but can import
  - No Network ➔ No Information Flow & no way to develop economy !!
- Equivalent to an Agriculture
  - No Agriculture ➔ No Food Ingredient, but can import
  - No Transport ➔ No Food & can't survive

➔ 2nd phase ICT investment

- ICT Hardware / Software development
  - Hardware development requires HUGE financial / material / man-power efforts
  - Software development requires only man-power efforts (but still huge requirement)

Important Question and Wrong Answer

- **Why Korea grew so fast in Economic Development?**
  - Thanks to its **Infrastructure** – Railway, Road, Telecom?
    - All are destroyed during Korean War (1950-1953)





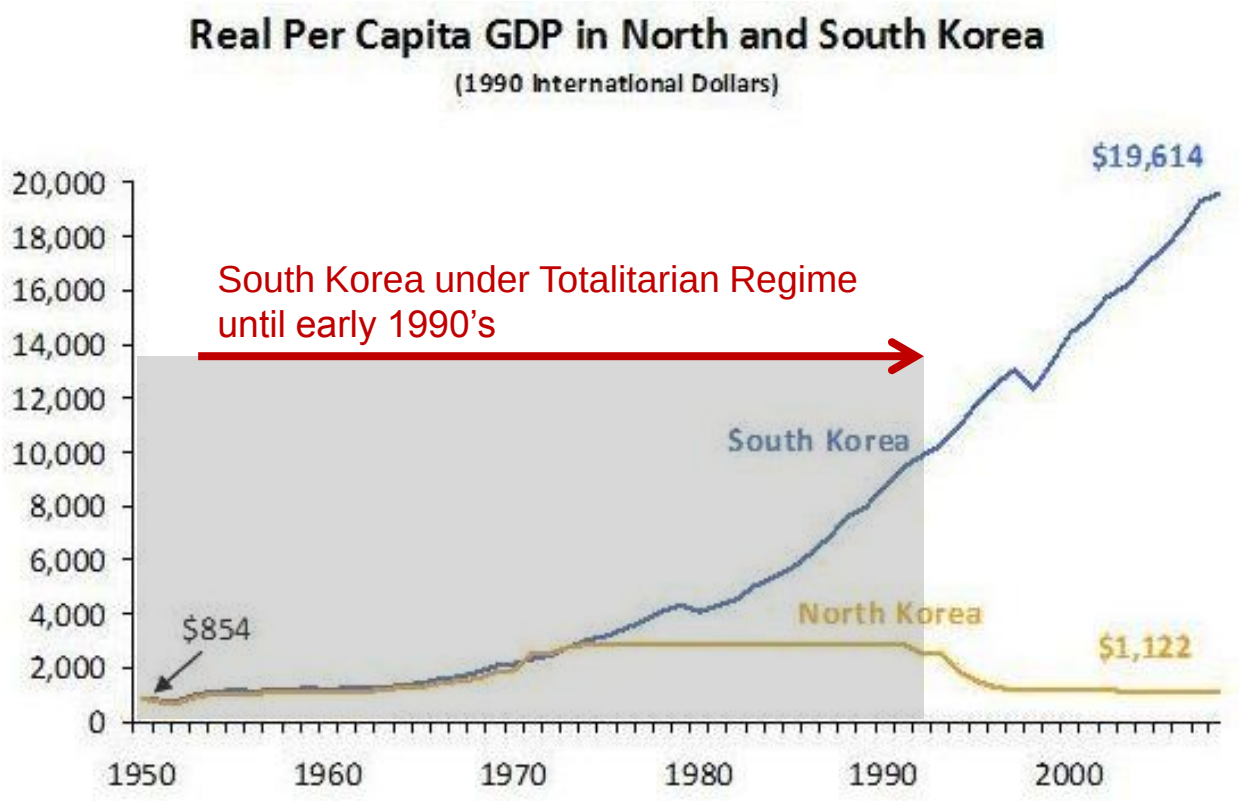




Important Question and Wrong Answer

➔ Why Korea grew so fast in Economic Development?

- Thanks to its **Democracy**?
  - North Korea has developed as fast as South Korea until mid 1970's
  - South Korea was under Dictatorship & Totalitarian Regime until early 1990's

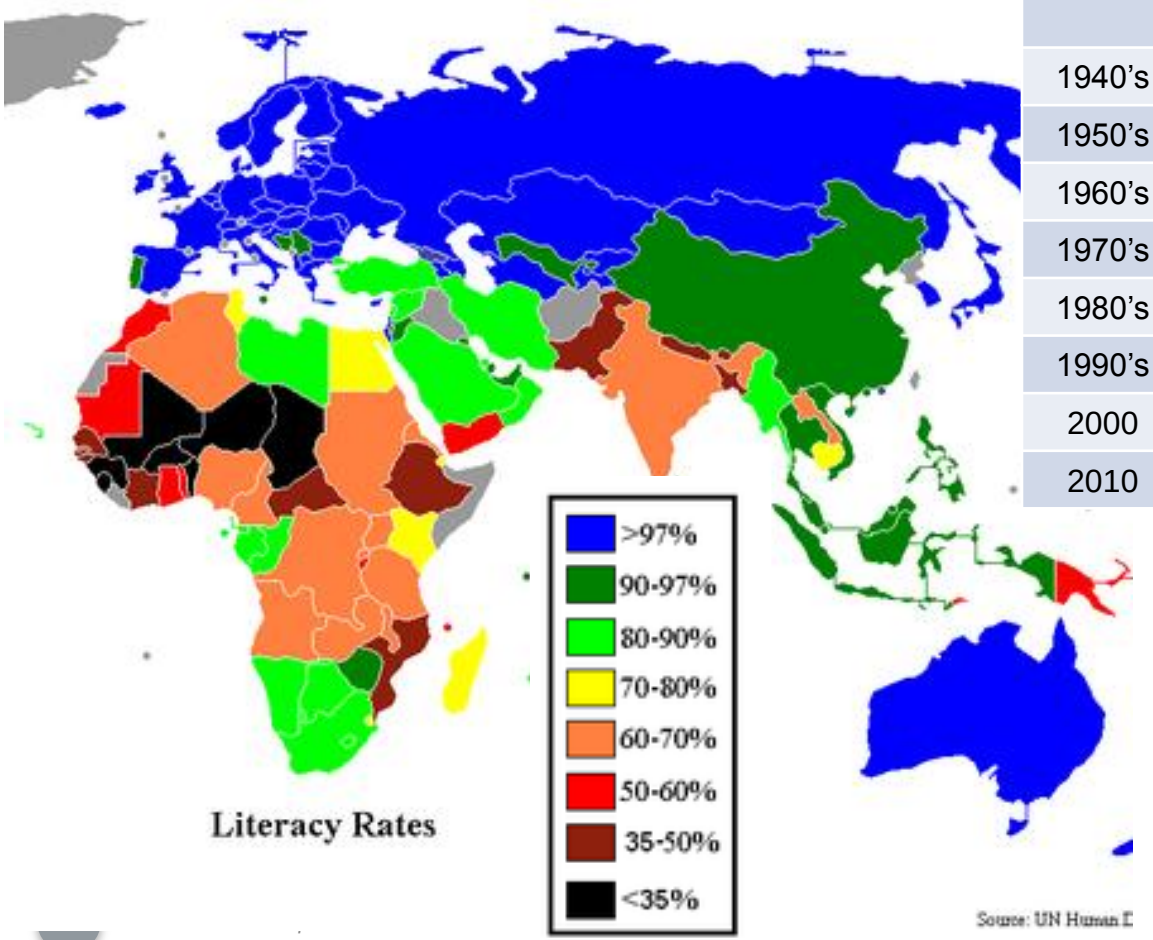


Right Answer to this question

➔ Why Korea grew so fast in Economic Development?

- Thanks to its **Human Capital**

1. Literacy



Literacy	S. Korea	Chad (Age 15-24)		
		Male	Female	Total
1940's	25 %			
1950's	60 %			
1960's	80 %			
1970's	93 %			
1980's	95 %			
1990's	97.8 %	26.2 %	8.9 %	17.3 %
2000	99.0 %	55.7 %	23.2 %	37.5 %
2010	99.5 %			

50 years difference

twice more qualified labours

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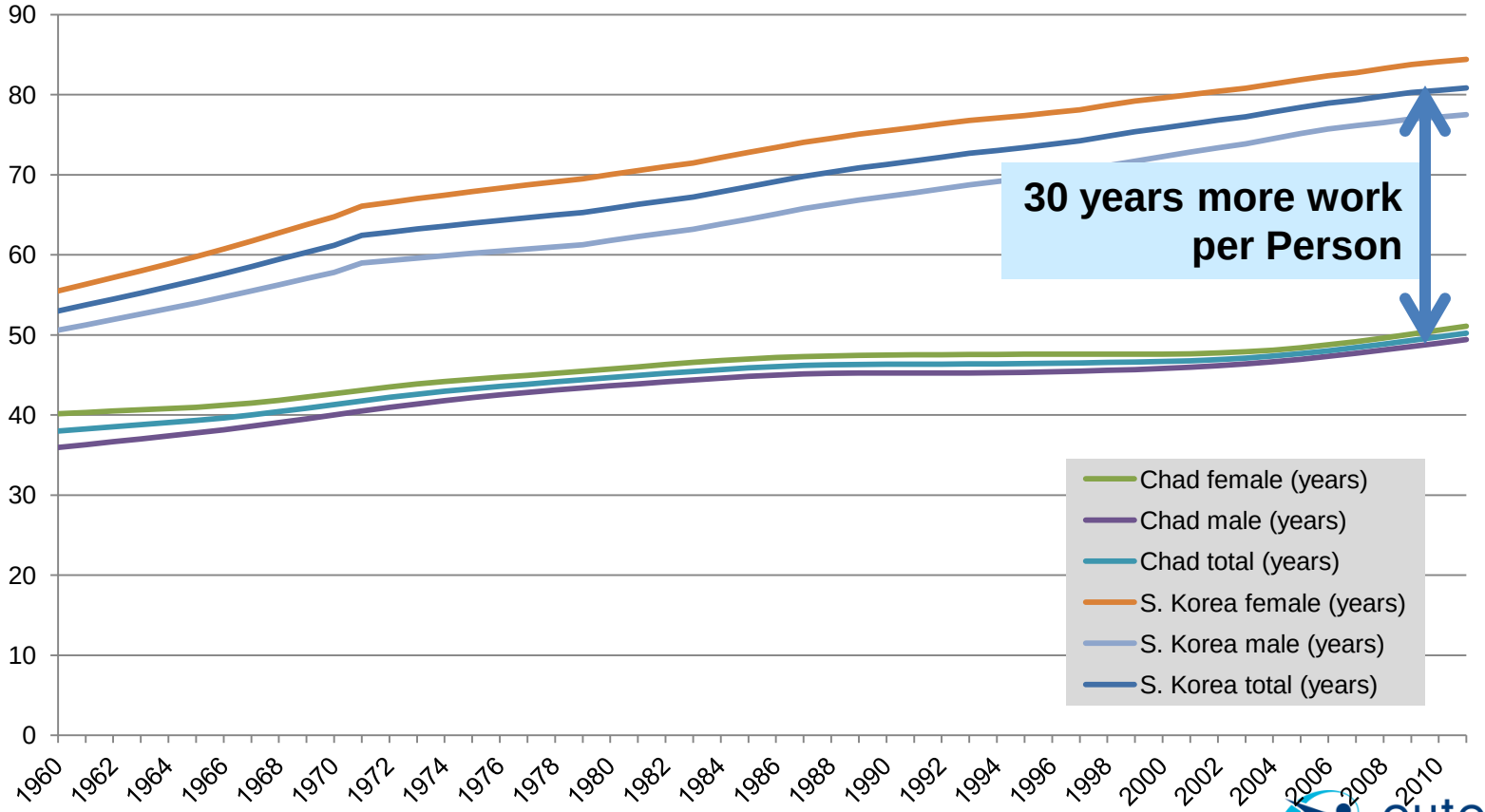
Right Answer to this question

➔ Why Korea grew so fast in Economic Development?

- **Thanks to its Human Capital**
  1. **Literacy**
  2. **Life Expectancy**



The Right Answer !!

➔ **Why Korea grew so fast in Economic Development?**

- **Thanks to its Human Capital**
  1. **Literacy**
  2. **Life Expectancy**

- **In conclusion,**
  - **Essential Primary & Further Education**
    ➔ Increase significantly **literacy rate**
    ➔ making more **qualified labour potential,**
    ➔ more likely to **understand technologies and make advances**

  - **Longer Life Expectancy**
    ➔ **making more labour outputs / person for longer period**

➔ **Economy can grow faster !!!**

Next Question then: So how can we achieve it ?

What should do Chad government?

➔ Invest in Human Capital !!!

- Increase **Life Expectancy**
  - Good Health Care
  - Better Nutrition
  - No War / No Wounded

➔ Today's essential tool is the Health Network !!

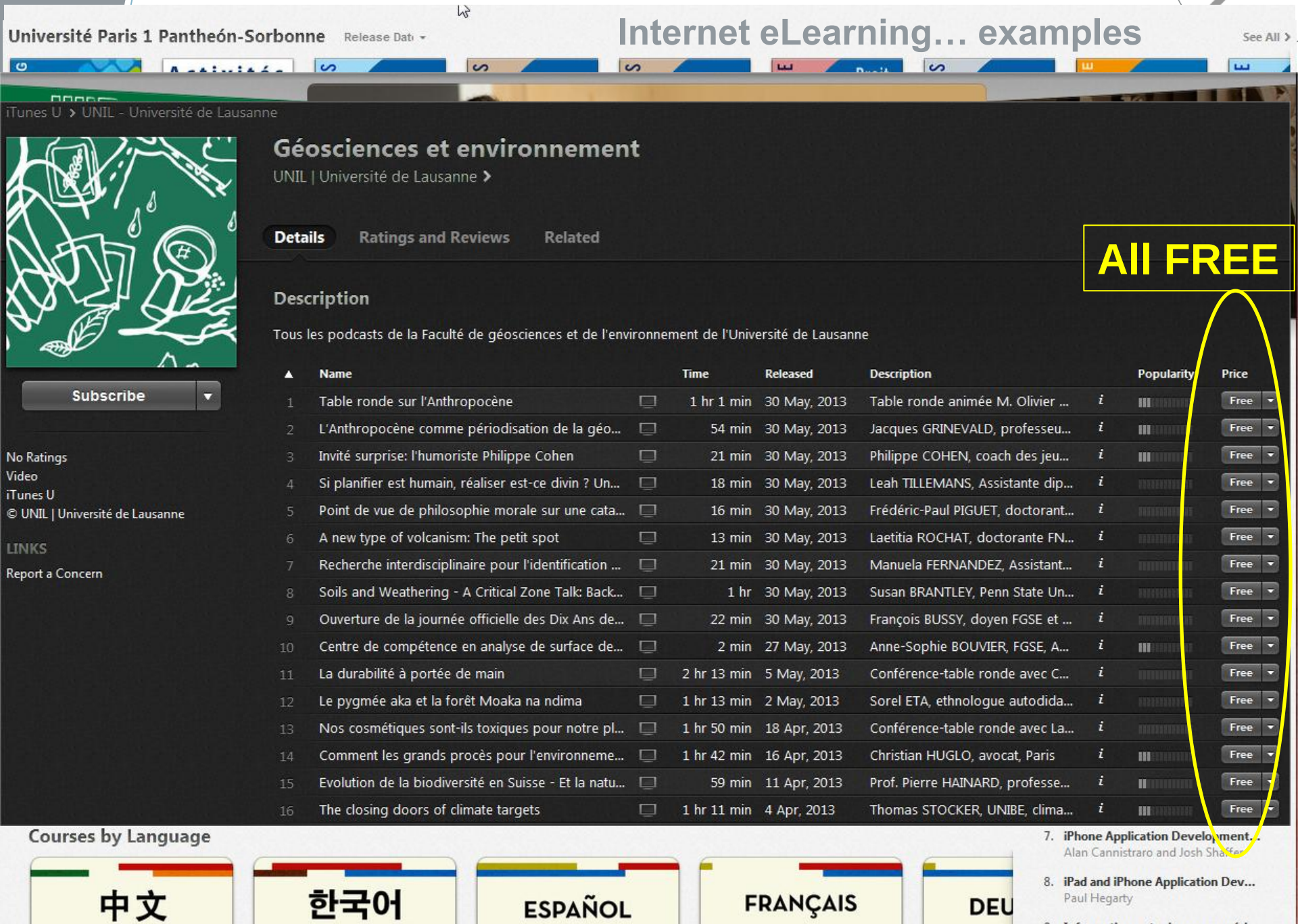
- Distance Health Care, Telemedicine, Prompt Epidemic Alerts, etc.

- Improve **Literacy, Education + Research Capability**
  - No miracle solution
  - Need to improve both **Primary Literacy** & **Higher Education**

➔ Today's essential tool is the Internet / Edu-Net !!

- Distance Learning, Internet Educational Contents, Teleconference, etc.

Internet eLearning… examples



www.france-universite-numerique.fr

France Université Numérique (FUN)

NOUVEAU

Aux origines de notre système juridique: histoire du droit et des institutions



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Ville durable : être acteur du changement



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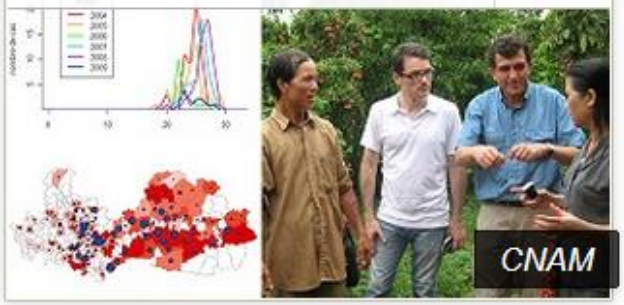
Concepts et méthodes en épidémiologie



CNAM

Comprendre l'exercice de la Justice: panorama des institutions juridictionnelles



Université Panthéon-Assas - Paris II

Internet, les autres et moi



Certificat Informatique et Internet

Données et services numériques, dans le nuage et ailleurs



Certificat Informatique et Internet

Eléments de santé au travail pour les ingénieurs et managers



CNAM

Introduction aux technologies des médias interactifs numériques



CNAM

Espace Mondial



Sciences Po

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8	01 – Le système audit...	Christine Petit – 01 – L...	11/42/14	Gratuit	Afficher sur iTunes
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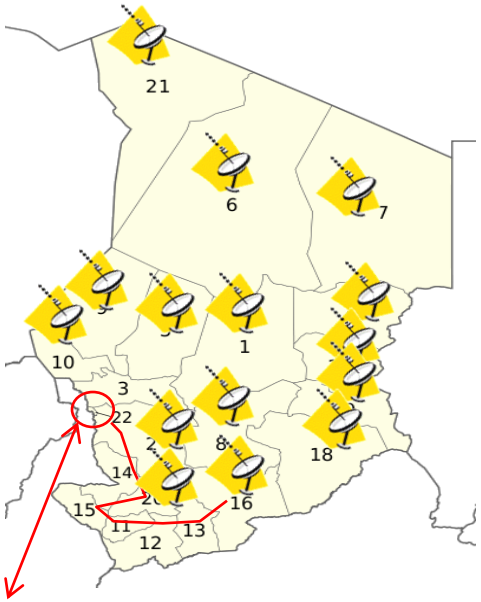
13	08 – L'ésotérisme de l...	Jean-Noël Robert – 08...	6/9/14	Gratuit	Afficher sur iTunes
14	08 – Quel futur pour la bi...	Gilles Boeuf – 08 – Qu...	5/8/14	Gratuit	Afficher sur iTunes
15	07 – La guerre littéraire	Antoine Compagnon – ...	5/30/14	Gratuit	Afficher sur iTunes
16	08 – L'ésotérisme de la la...	Jean-Noël Robert – 08...	4/8/14	Gratuit	Afficher sur iTunes

Connect all Chad citizens from Space

- **Chad via l'Espace**



1. eGovernement – Réseau administratif
2. eSanté – Ensemble organismes de santé
3. eEducation – Réseau pour les universités et les instituts de recherche
4. eSecurité – Réseau pour la sécurité des citoyens tchadiens
5. eRessources – Réseau de gestion des ressources naturelles; l'eau, le pétrole, ..
6. eConnectivité – Interconnexion réseaux GSM et 3G



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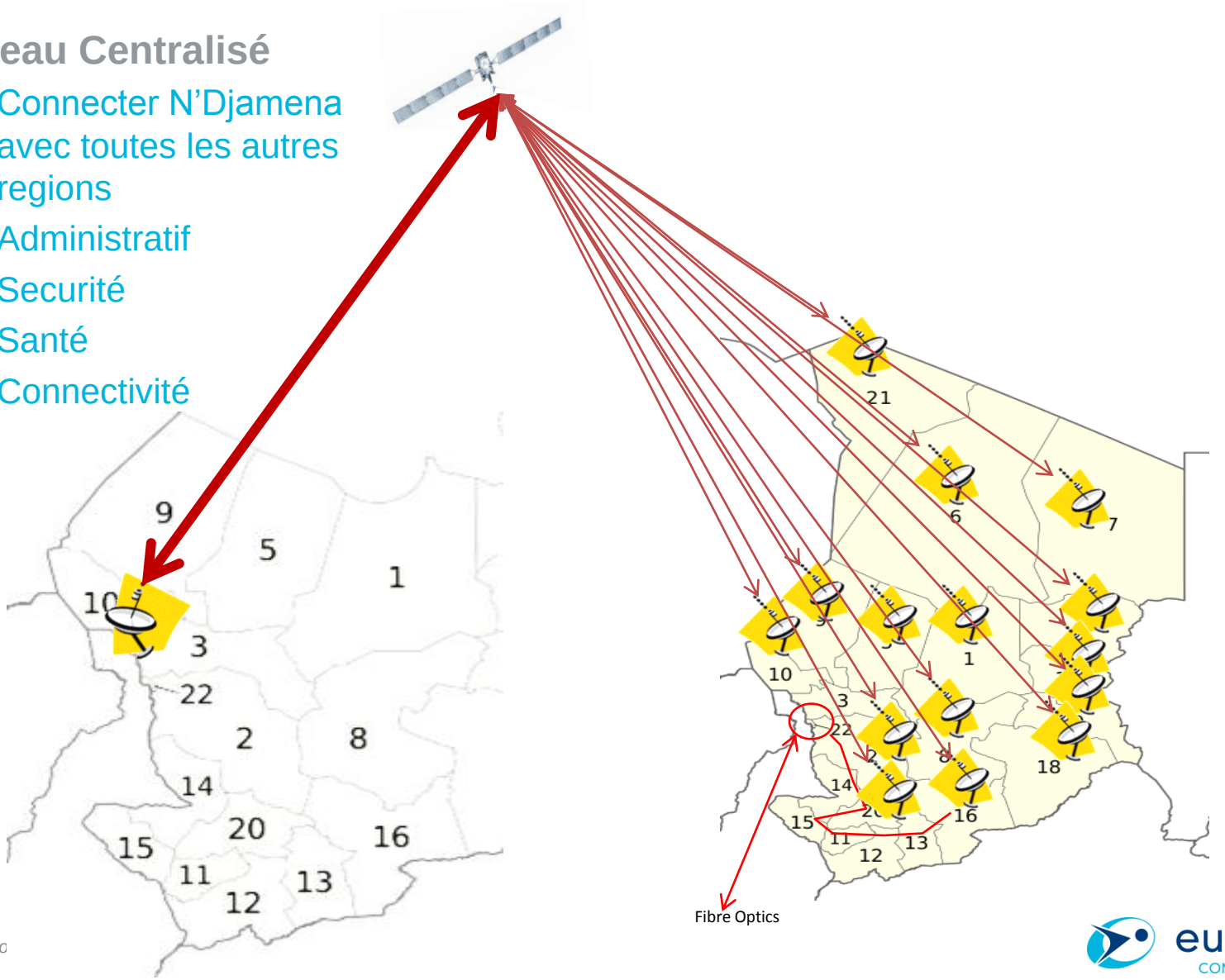
Regional Digital Network Deployment from Space

- **Réseau Centralisé**
  - Connecter N'Djamena avec toutes les autres regions
  - Administratif
  - Securité
  - Santé
  - Connectivité



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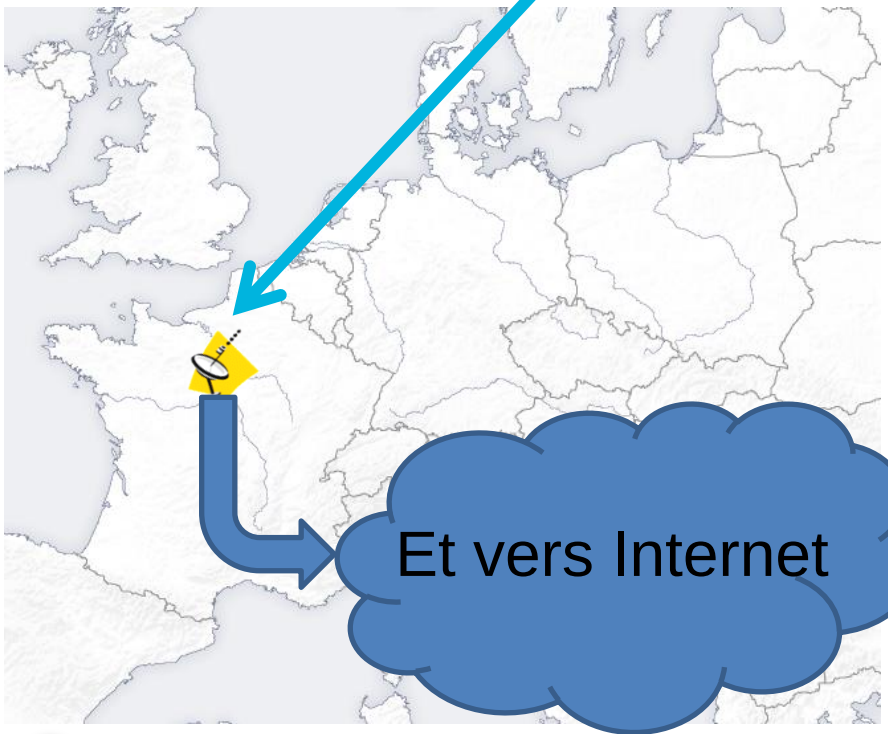
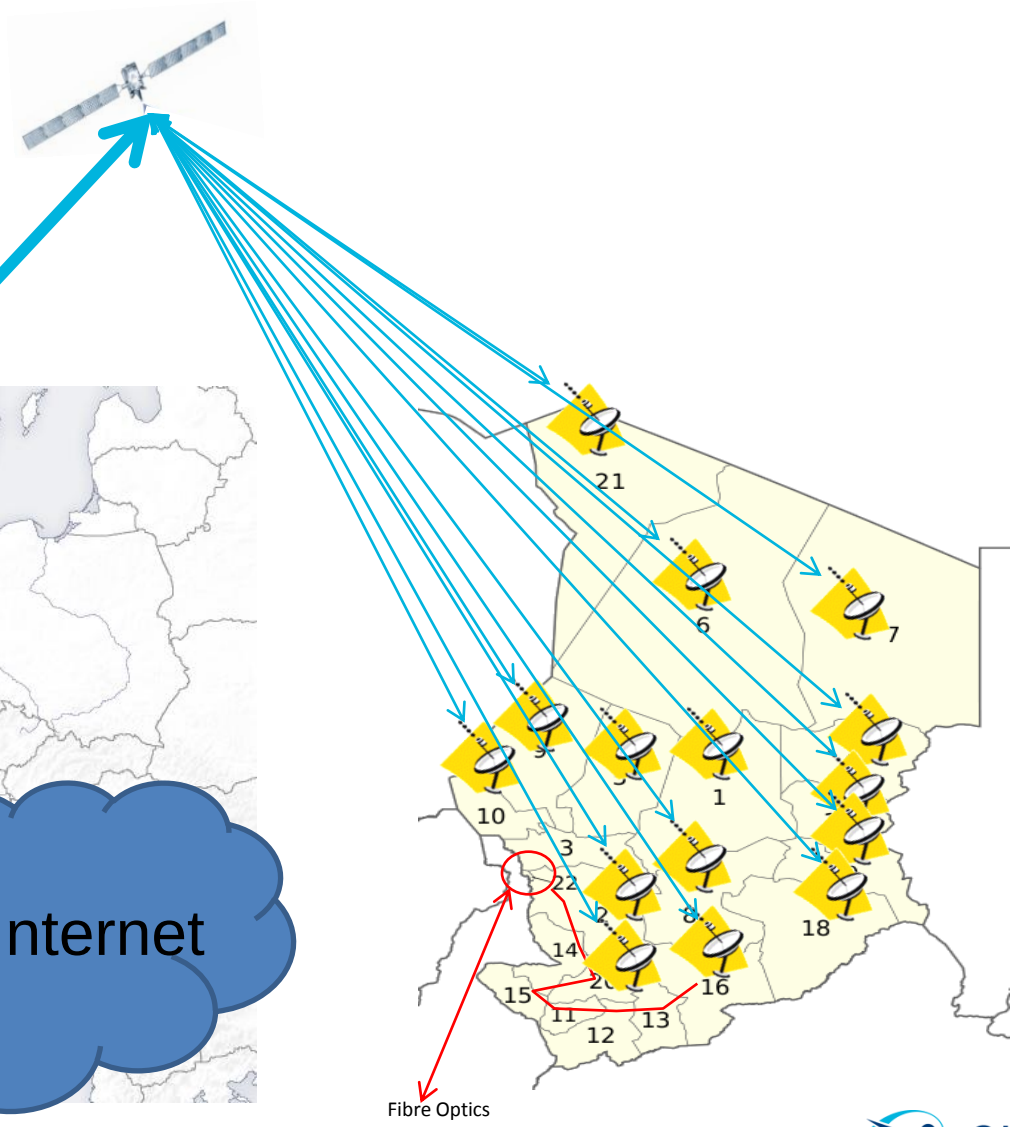
Direct Internet Connection from Chad Regions

- **Réseau vers Internet**
  - Administratif
  - Education
  - Santé
  - …





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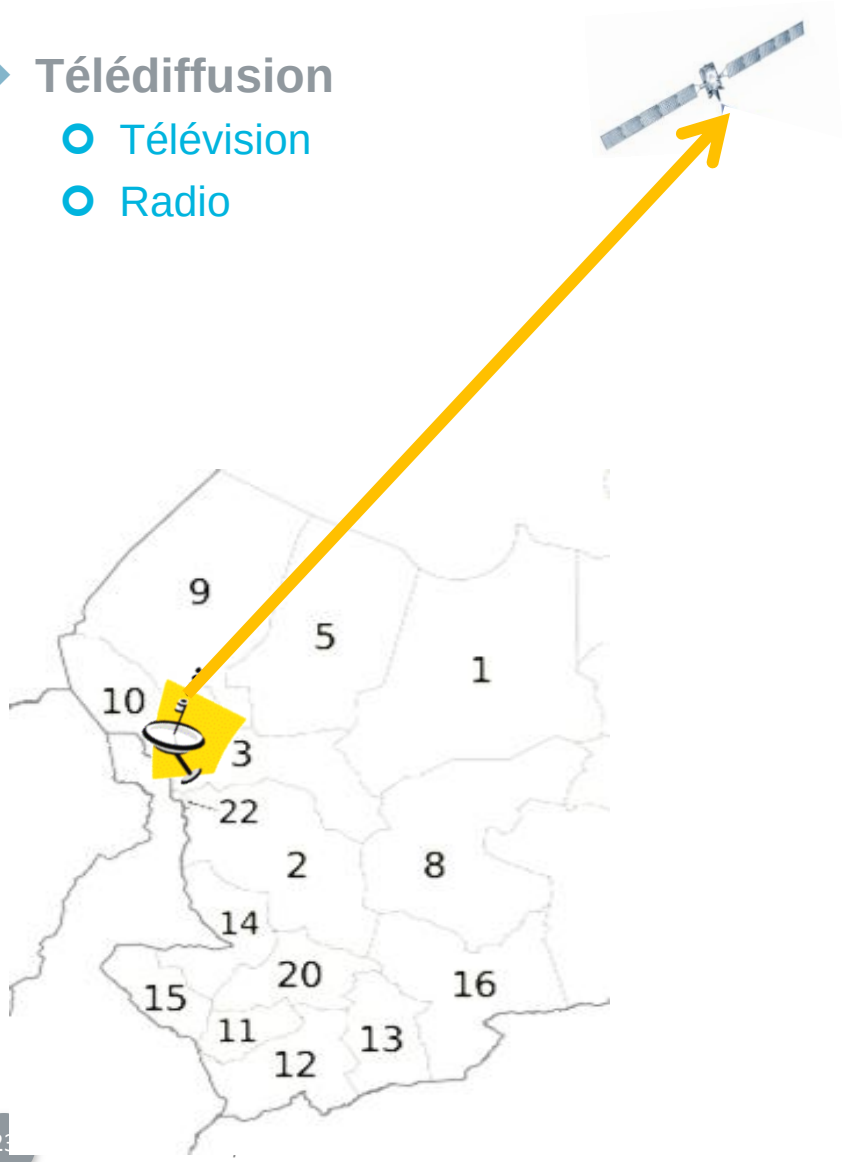
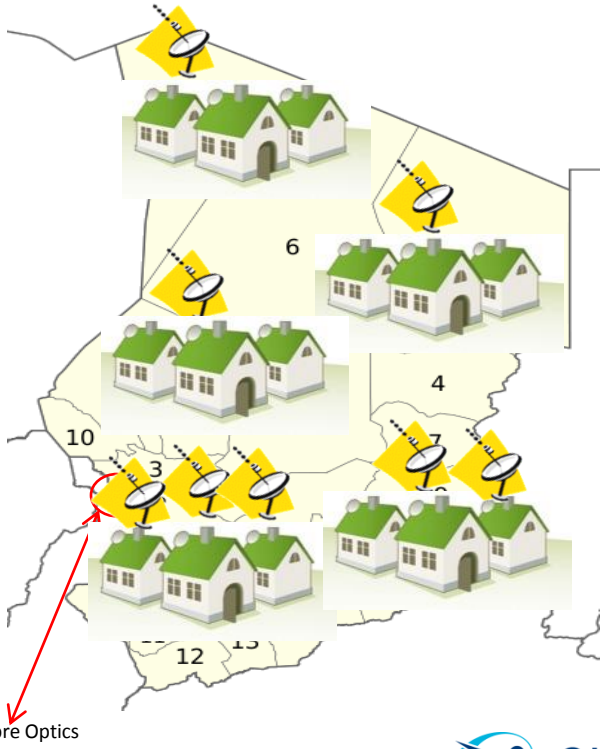
Television and Radio Broadcasting from Space

- Télédiffusion
  - Télévision
  - Radio





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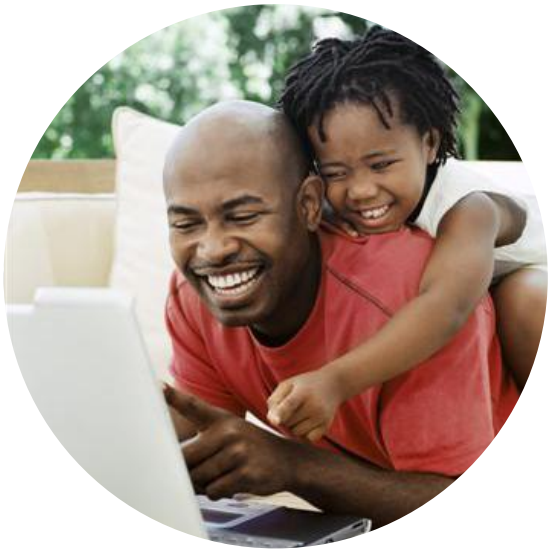
Accelerate Digital Revolutions from Space

Applications pour tous

- Internet pour tous
- Administration pour tous
- Securité pour tous
- Bonheur pour tous

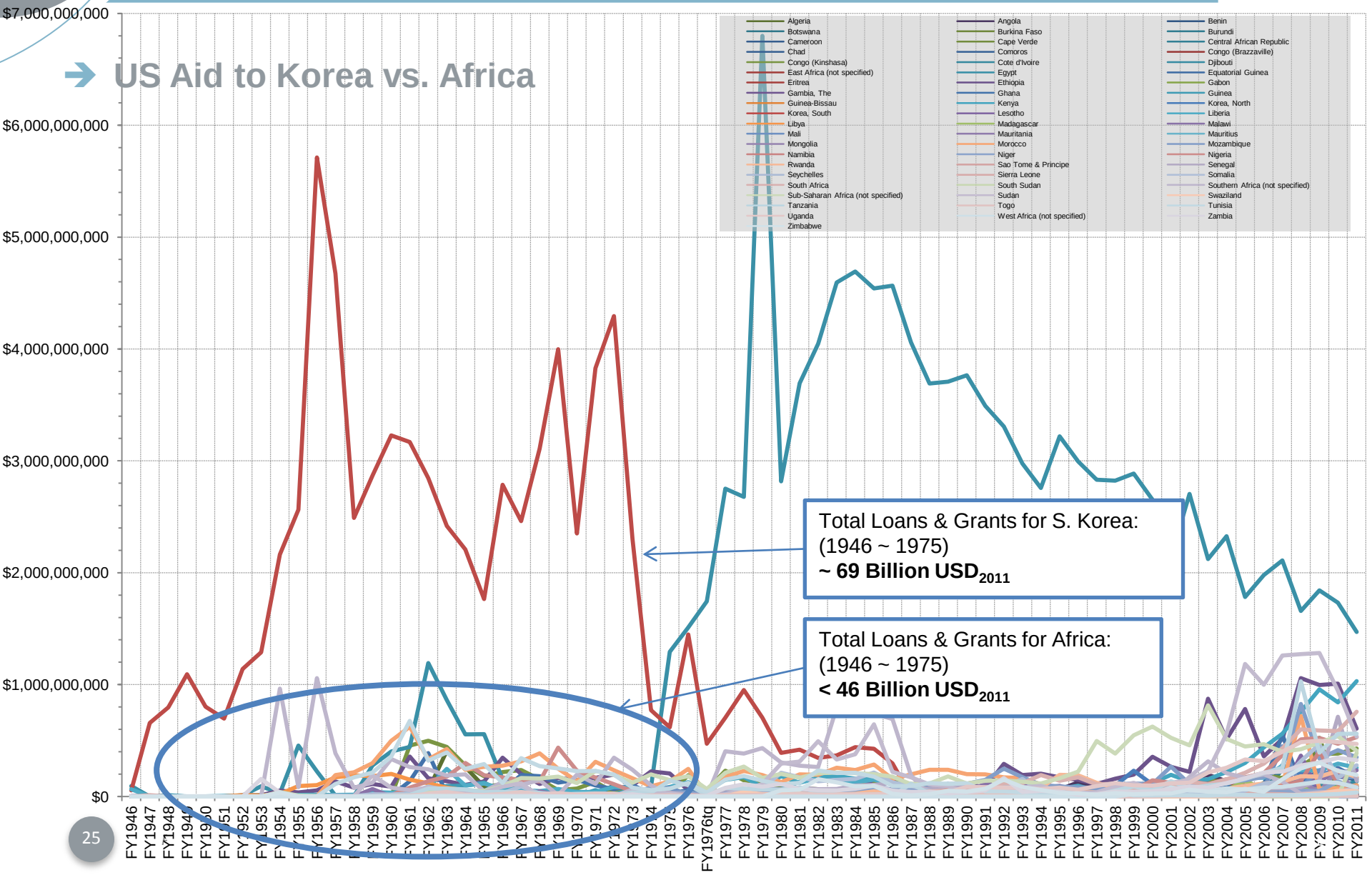






ChadREN Installation Finances
Why not call for ODA from OECD and its members?

➔ US Aid to Korea vs. Africa



EUTELSAT Solutions for Chad

➔ Presentation to be followed by

Mr. Gaethan Donlap Kouanga

- Eutelsat Regional Director for Chad and other Western African Countries
- Email: gdonlap@eutelsat.com
- Mobile: +33 6 8419 9829