

# *Science, Technology and Sharing*

## 과학기술과 나눔정신

29.07.2016

Kevin Kyeong-il CHOI

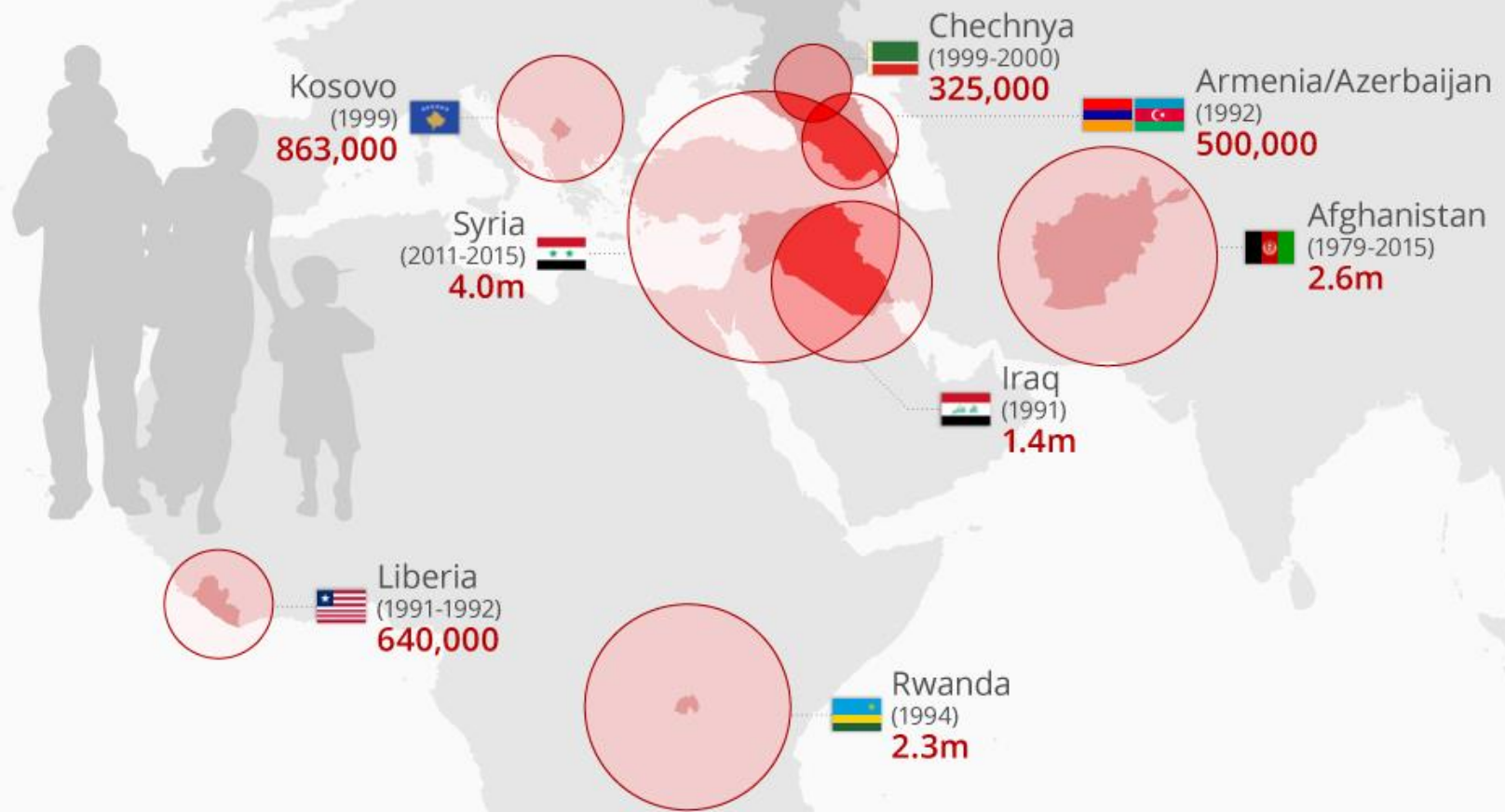
# Today's questions in the World

- ▶ Terrorisms in Europe 테러리즘
  - Rouen, Nice in France
  - Munich in Germany
- ▶ Economic Crisis and Political Conflict 경제난 및 정치분쟁
  - Syrian refugees
  - African crisis: South Sudan, DRC, Boko Haram in Nigeria, ...
- ▶ Environmental & Health 환경 및 보건/건강
  - PHEIC on Zika virus outbreak after Ebola, MERS, Avian Flu, ...
  - Malaria, Dengue, Yellow Fever, Polio, ... Still persisting
- ▶ and Climate change... 지구온난화

# Refugee statistics

## Syria Is The Worst Refugee Crisis Of Our Generation

Refugees displaced by war in selected conflicts since 1991



@StatistaCharts

Sources: UNHCR, News Reports, Berkeley University

statista

29.07.2016

3

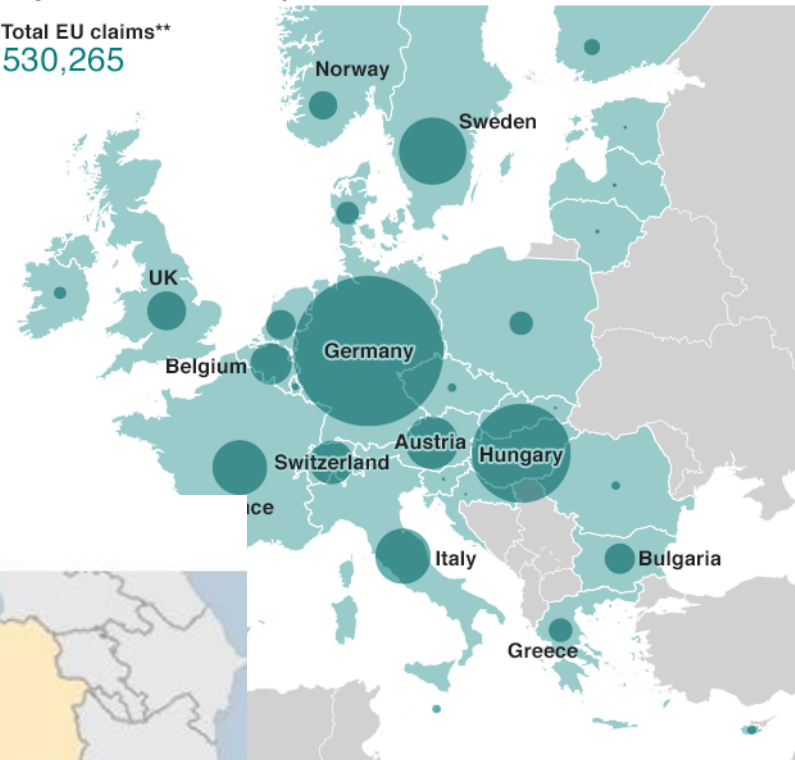
eam  
Inclusive Development Research Association for Markind

# Refugee statistics – Syria

- ▶ 17 M total population
  - **11.6 M refugees** total;
    - 7.6 M refugees inside Syria
    - 4 M+ refugees outside Syria
  - **0.5 M refugees** to Europe
    - very few accepted so far

Asylum claims in Europe, 2015\*

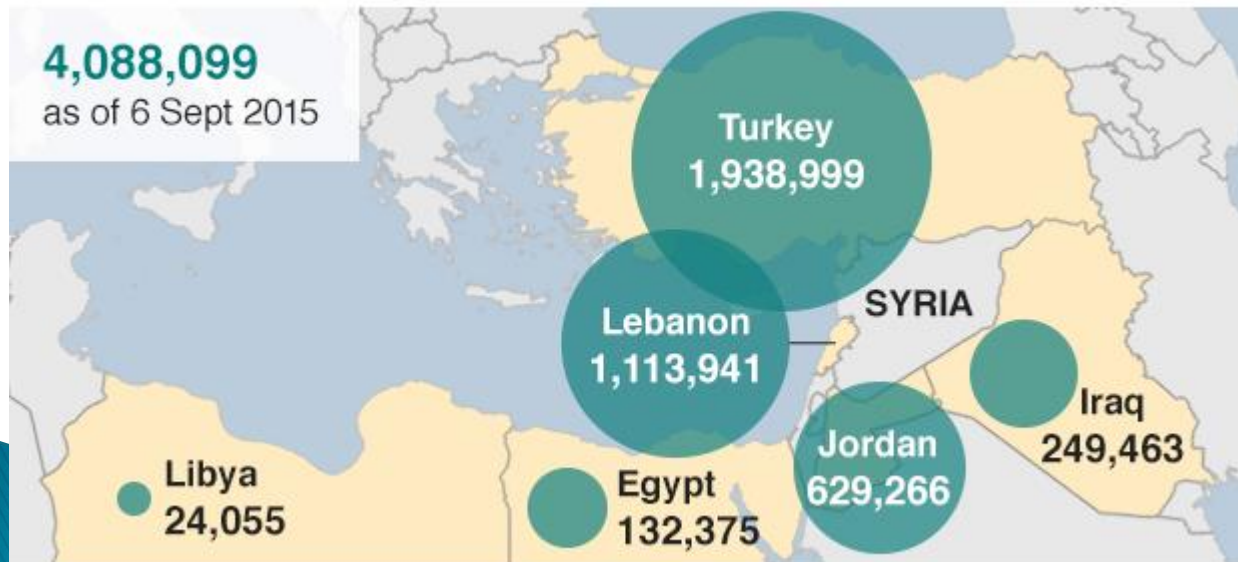
Total EU claims\*\*  
530,265



Registered Syrian refugees

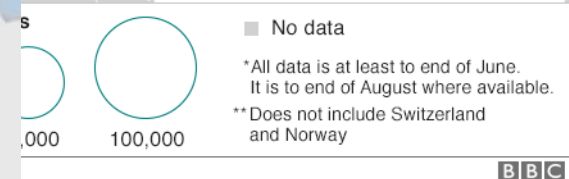
4,088,099

as of 6 Sept 2015



Source: UNHCR

BBC





# If all the ices are melted

## Europe

London? A memory. Venice? Reclaimed by the Adriatic Sea. Thousands of years from now, in this catastrophic scenario, the Netherlands will have long since surrendered to the sea, and most of Denmark will be gone too. Meanwhile, the Mediterranean's expanding waters will also have swelled the Black and Caspian Seas.



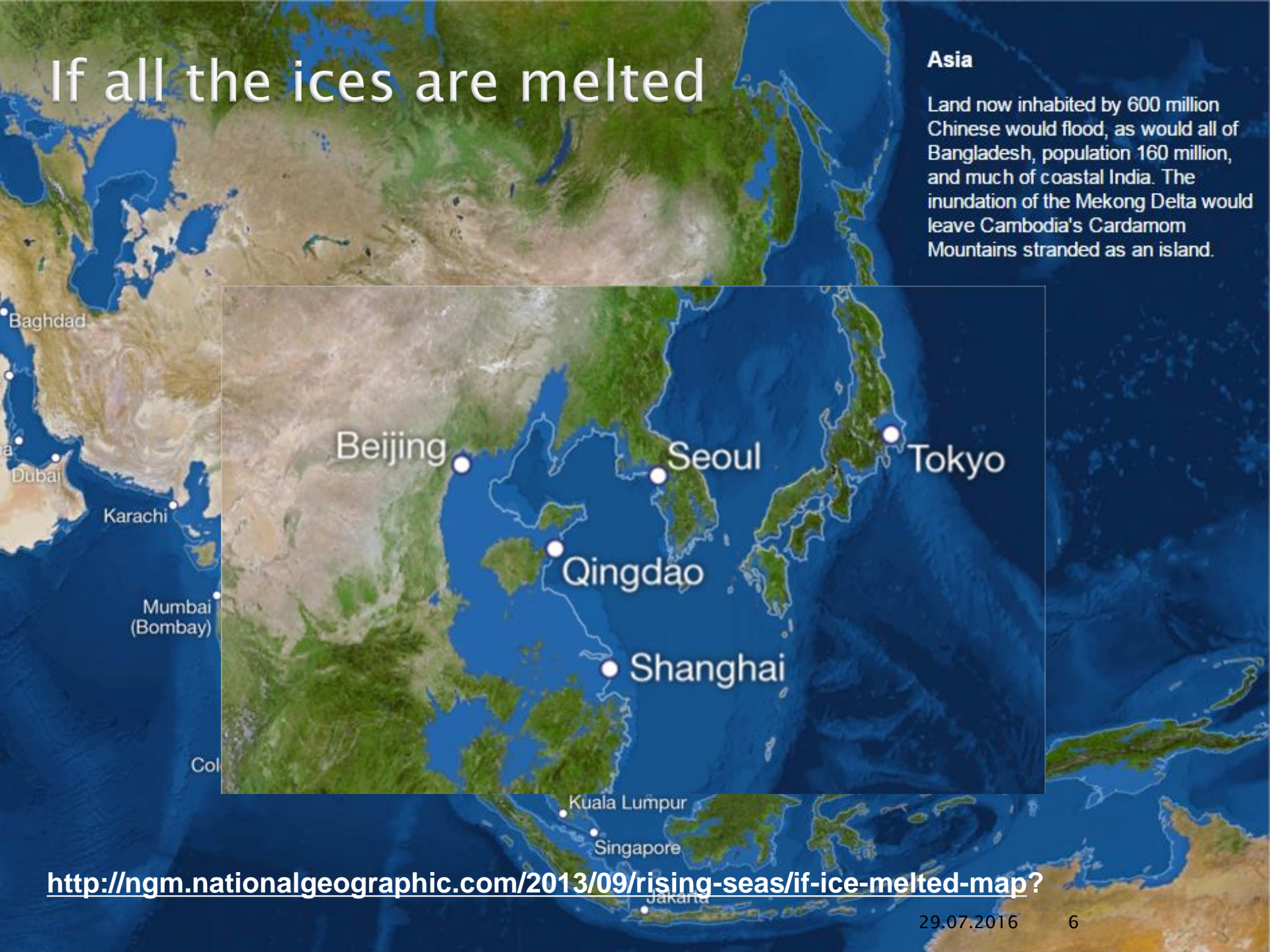
<http://ngm.nationalgeographic.com/2013/09/rising-seas/if-ice-melted-map?>



# If all the ices are melted

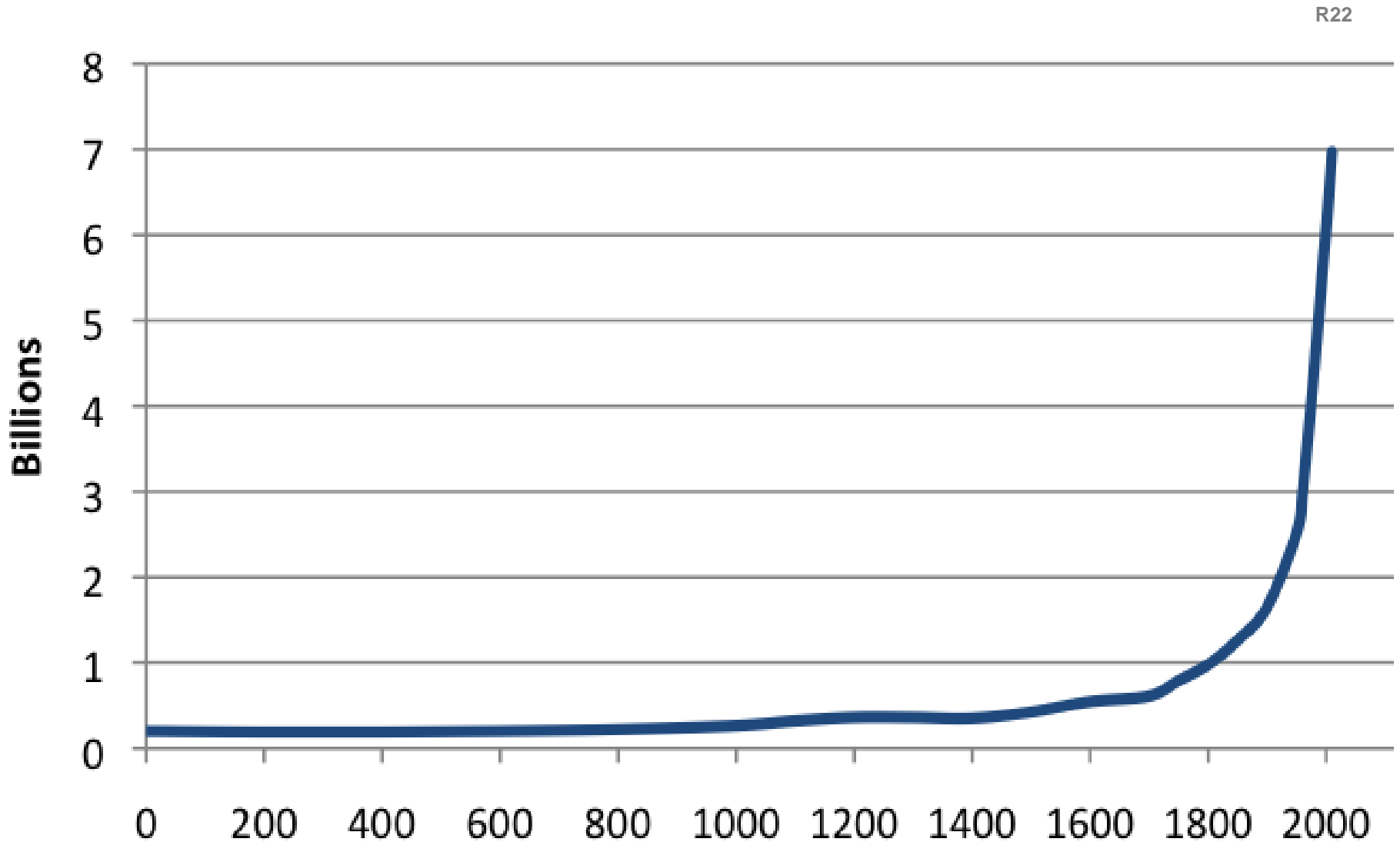
## Asia

Land now inhabited by 600 million Chinese would flood, as would all of Bangladesh, population 160 million, and much of coastal India. The inundation of the Mekong Delta would leave Cambodia's Cardamom Mountains stranded as an island.



<http://ngm.nationalgeographic.com/2013/09/rising-seas/if-ice-melted-map?>

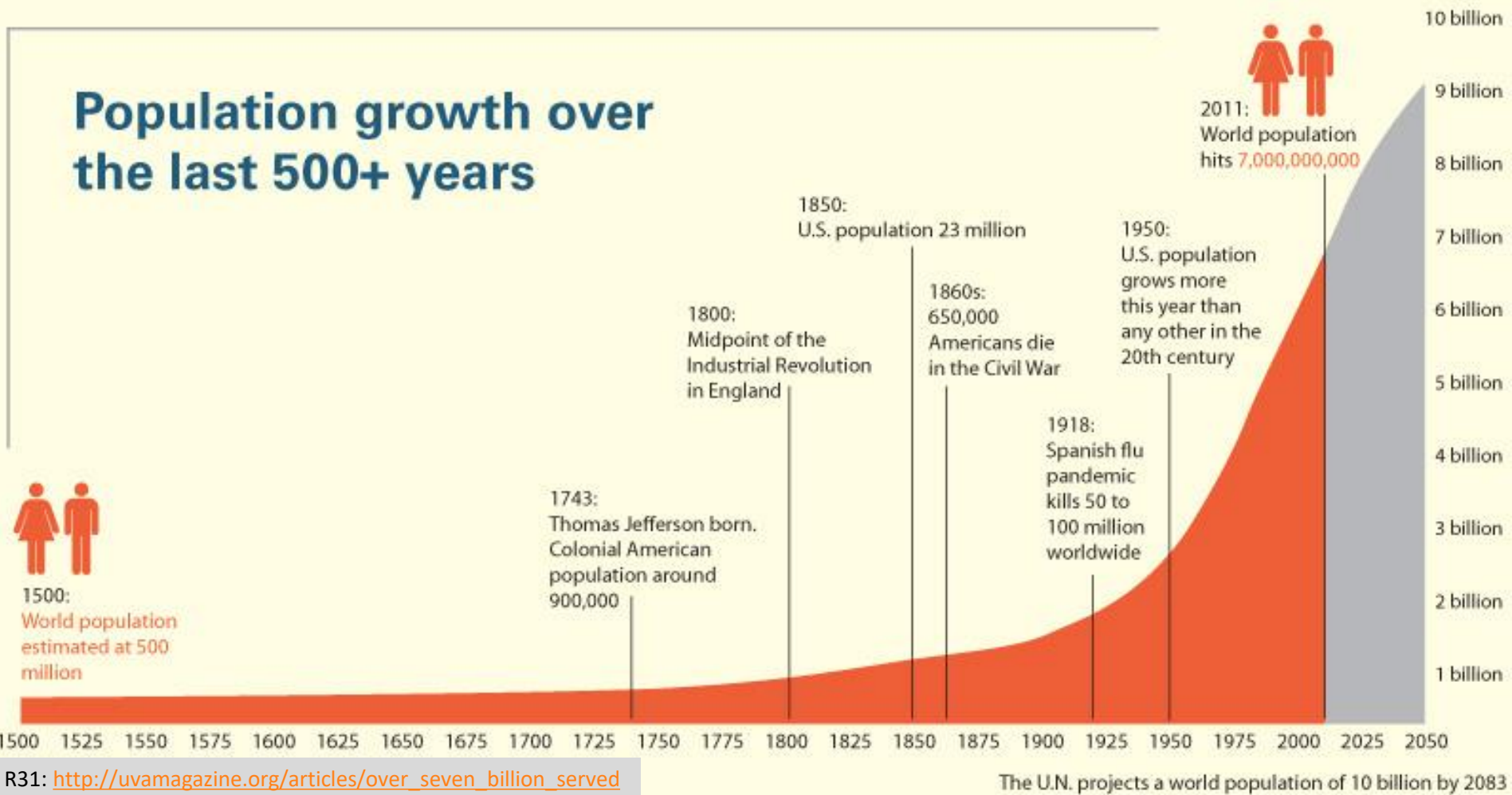
# World Population Evolution



R22: McEvedy & Jones, "Atlas of World History", Penguin Reference Books and Wikipedia-World Population,  
<http://peakoil.com/consumption/what-would-it-take-to-get-to-a-steady-state-economy>

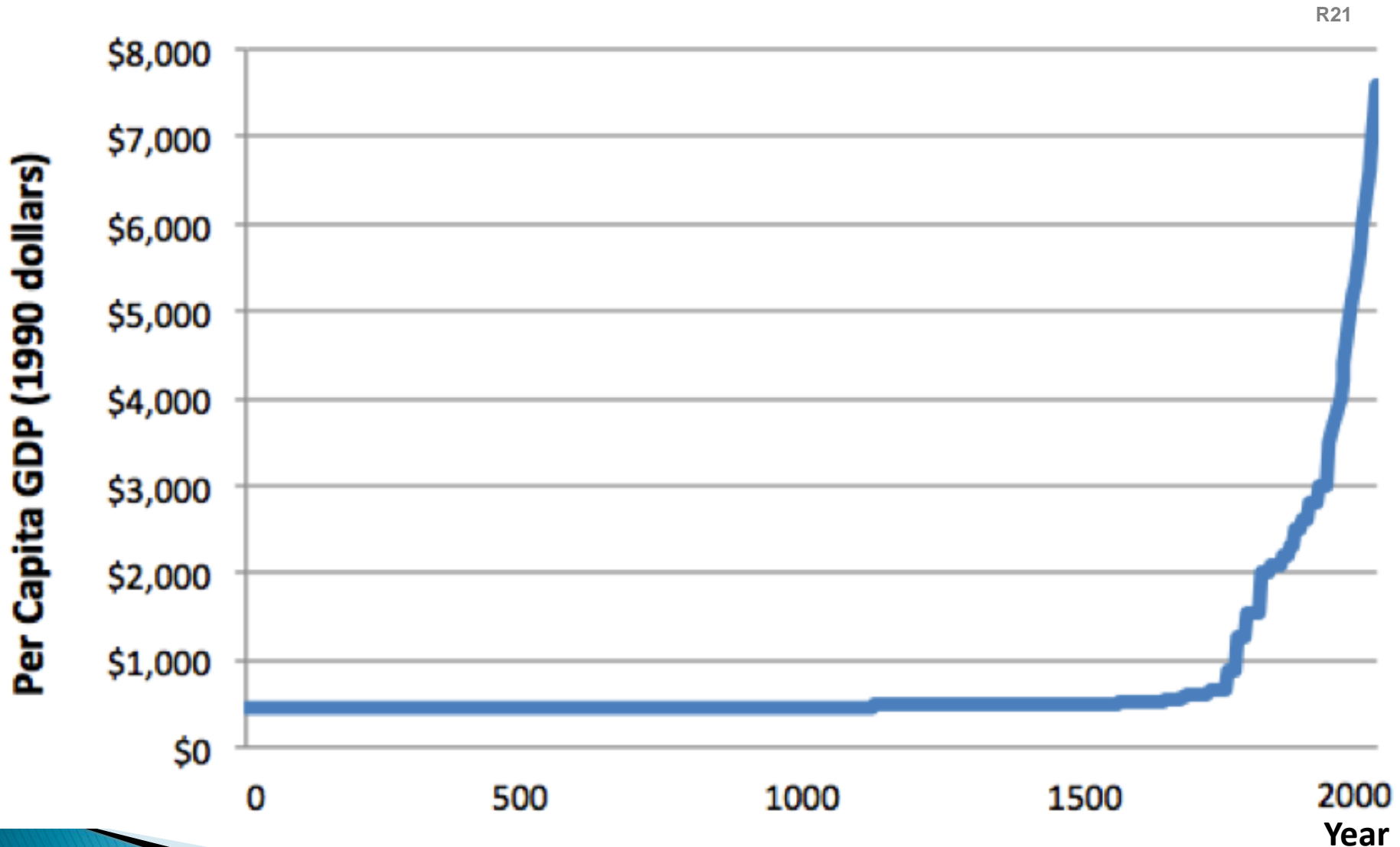
# World Population Evolution

## Population growth over the last 500+ years





# World per Capita GDP

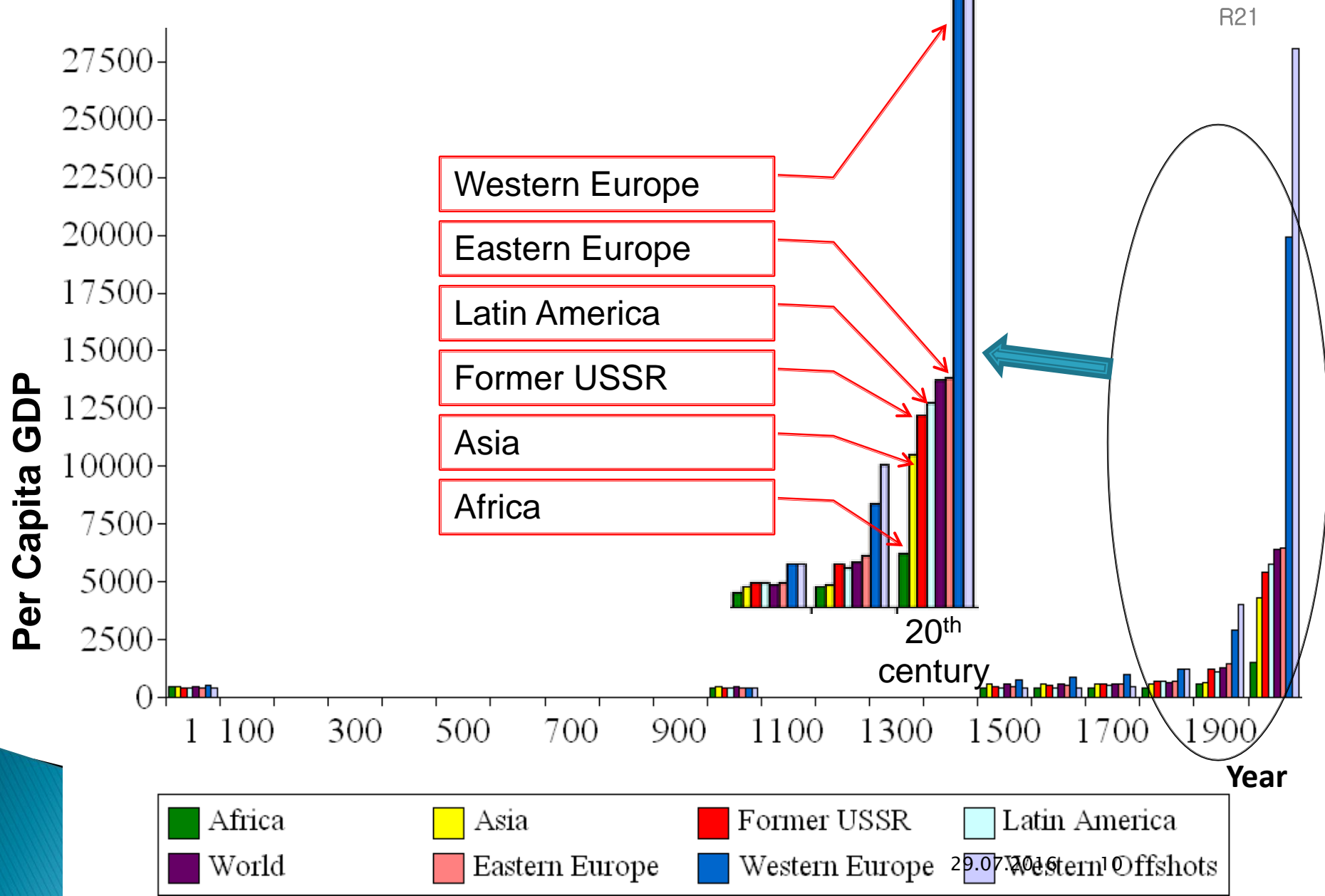


R21: Angus Maddison, World Population, GDP and Per Capita GDP

[http://www.ggdnc.net/maddison/Historical\\_Statistics/horizontal-file\\_03-2007.xls](http://www.ggdnc.net/maddison/Historical_Statistics/horizontal-file_03-2007.xls)



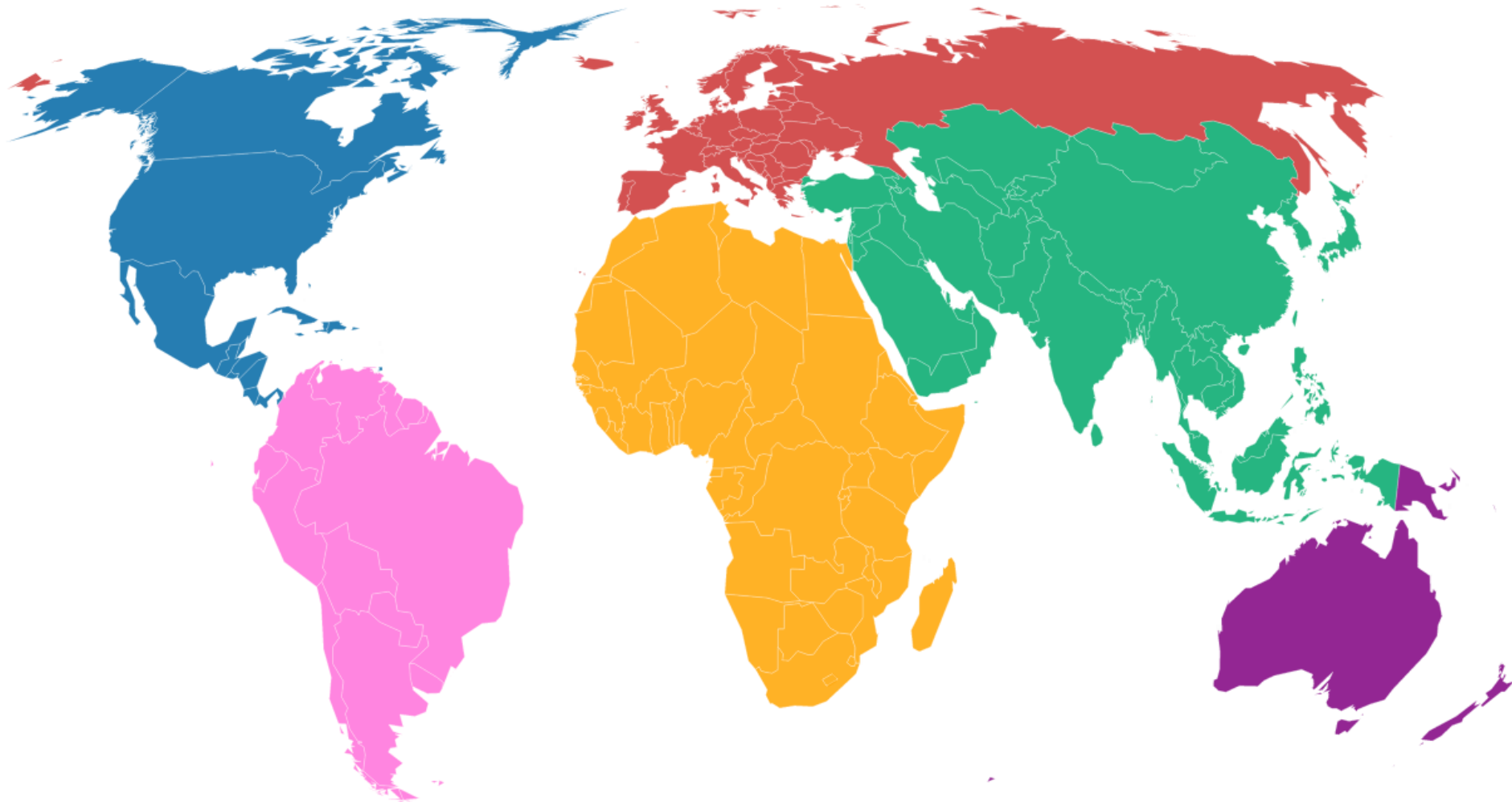
# World per Capita GDP



# World Population

BACKGROUND RESPONSIBILITY VULNERABILITY

Area Population Wealth Extraction Emissions Consumption Historical Reserves People at risk Sea level Poverty



# World Population

## BACKGROUND



Area

**Population**

Wealth

## RESPONSIBILITY

Extraction

Emissions

Consumption

Historical

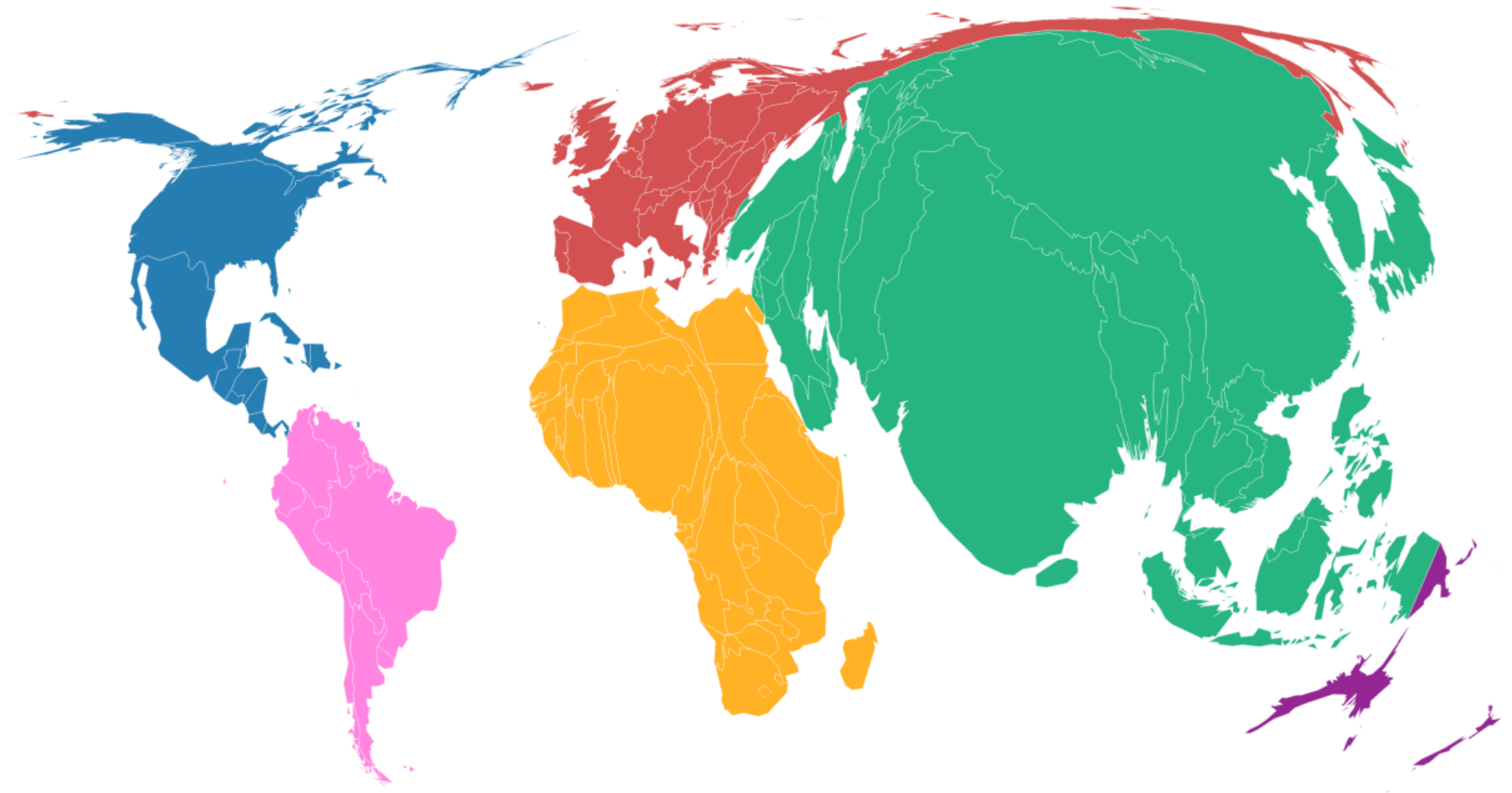
Reserves

## VULNERABILITY

People at risk

Sea level

Poverty



# World Population

BACKGROUND



Area Population

**Wealth**

RESPONSIBILITY

Extraction Emissions

Consumption

Historical

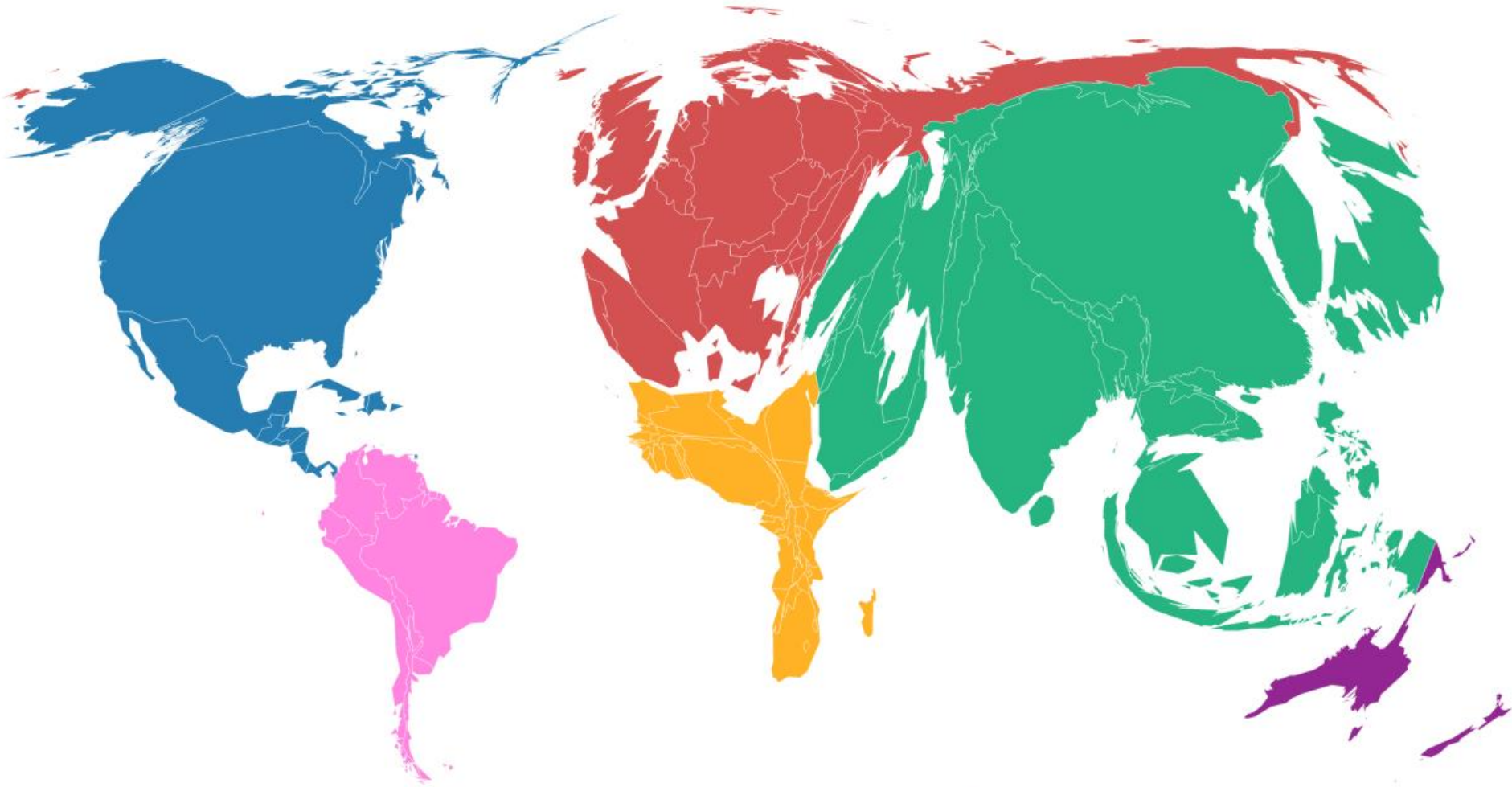
Reserves

VULNERABILITY

People at risk

Sea level

Poverty



# World Population

## BACKGROUND



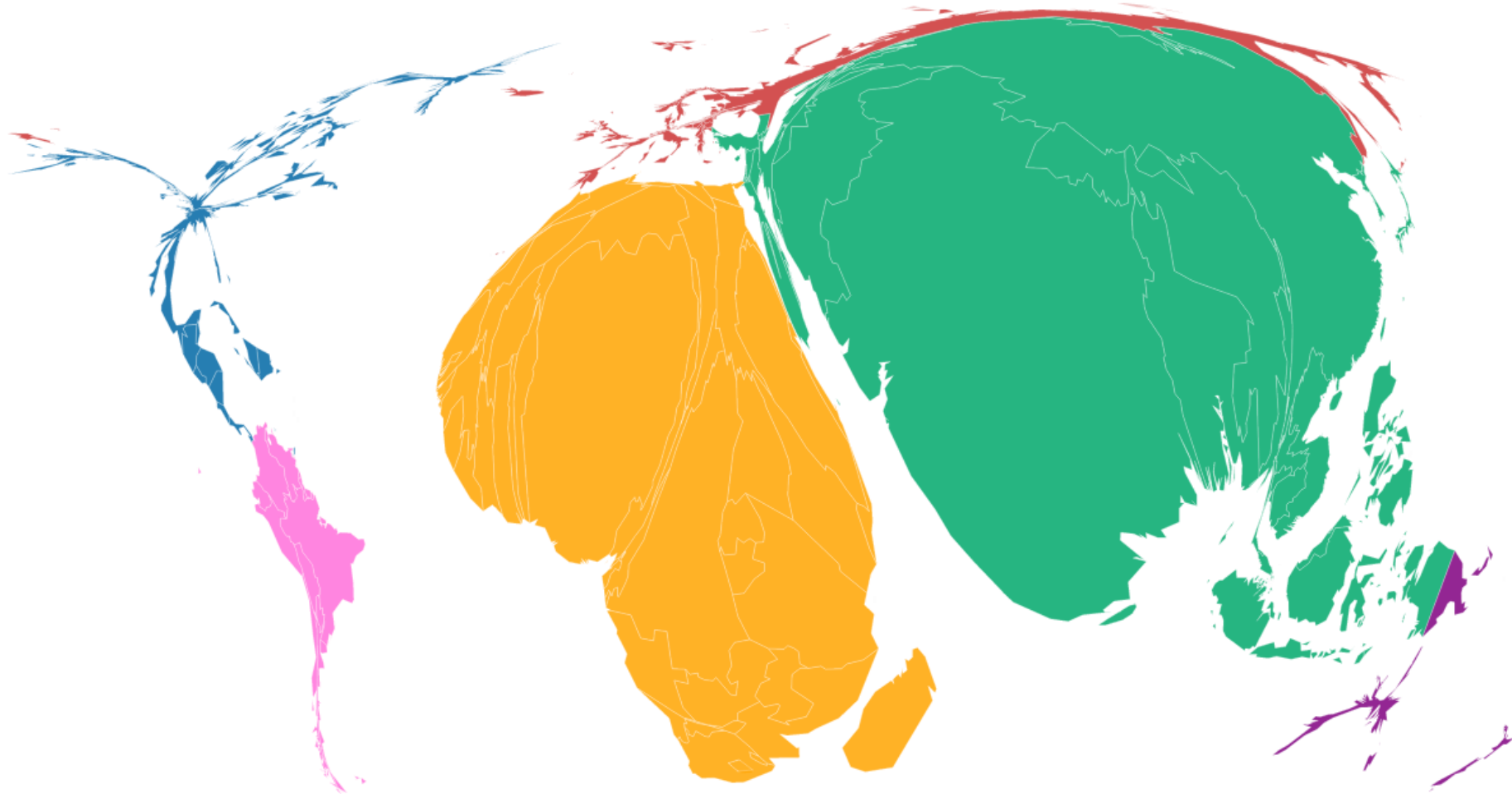
Area Population Wealth

## RESPONSIBILITY

Extraction Emissions Consumption Historical Reserves

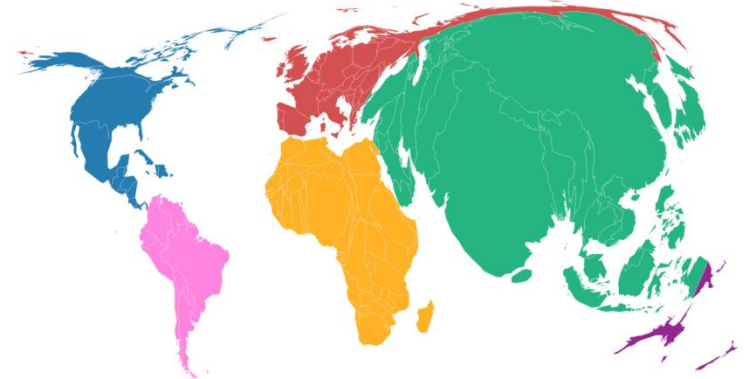
## VULNERABILITY

People at risk Sea level Poverty

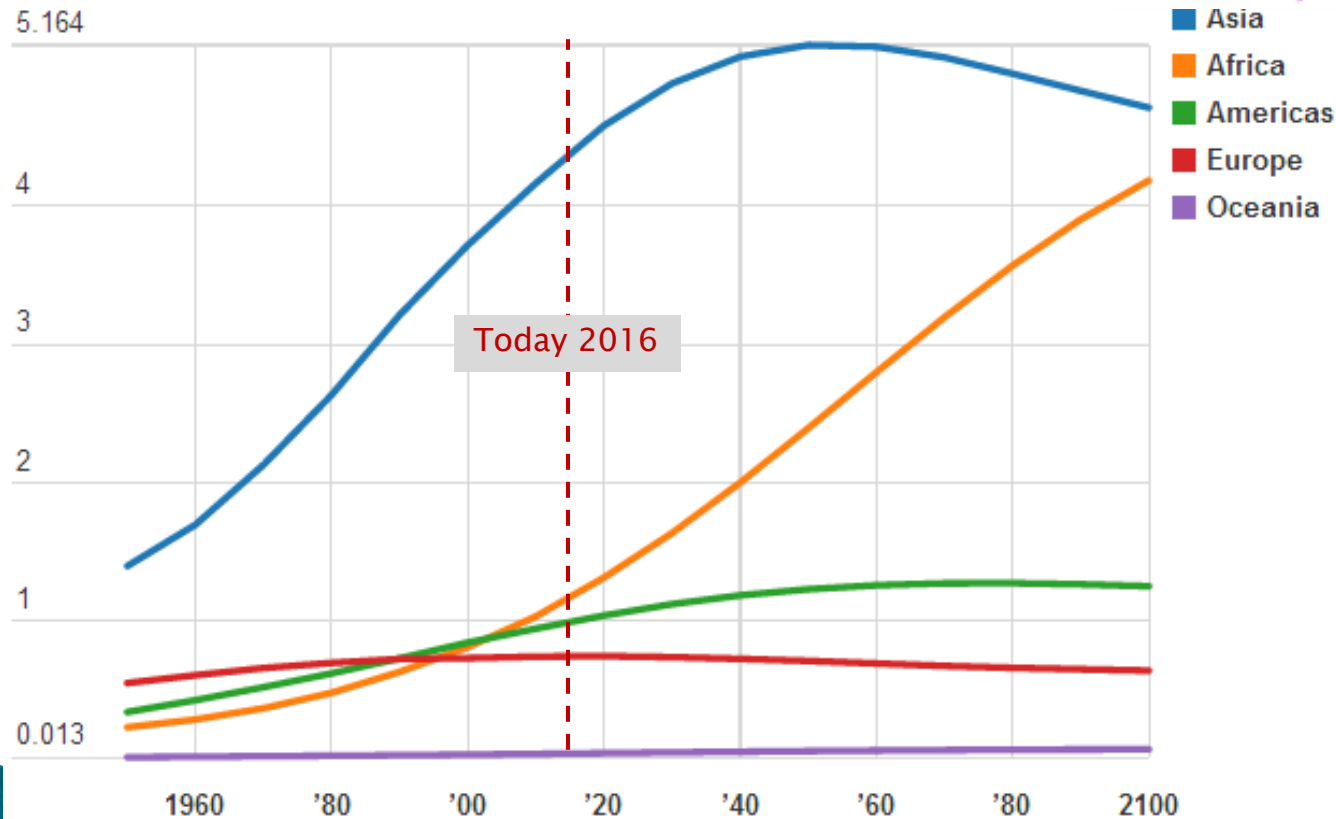




# World Population



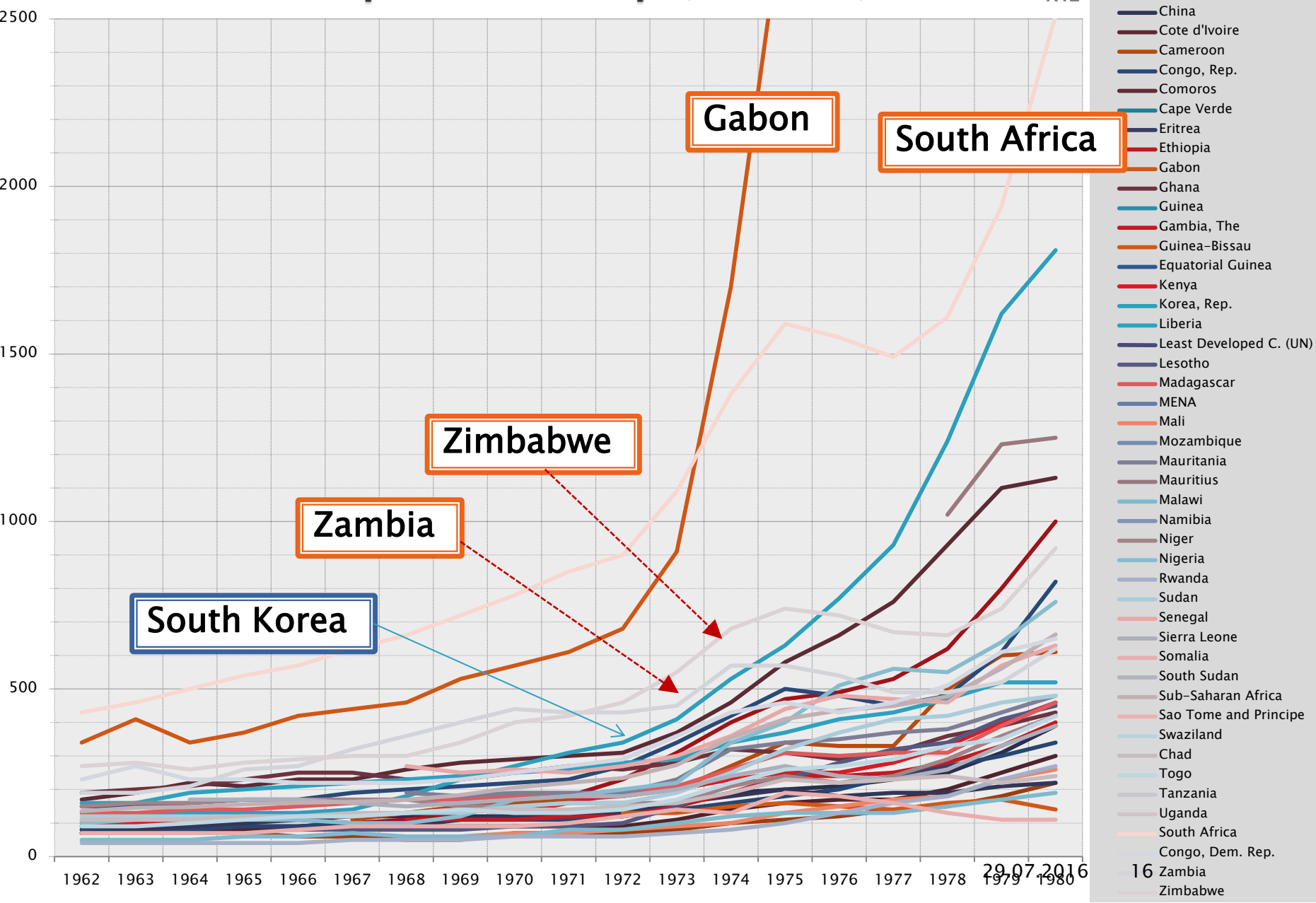
UN population forecasts in billions



Created with [Datawrapper](#)

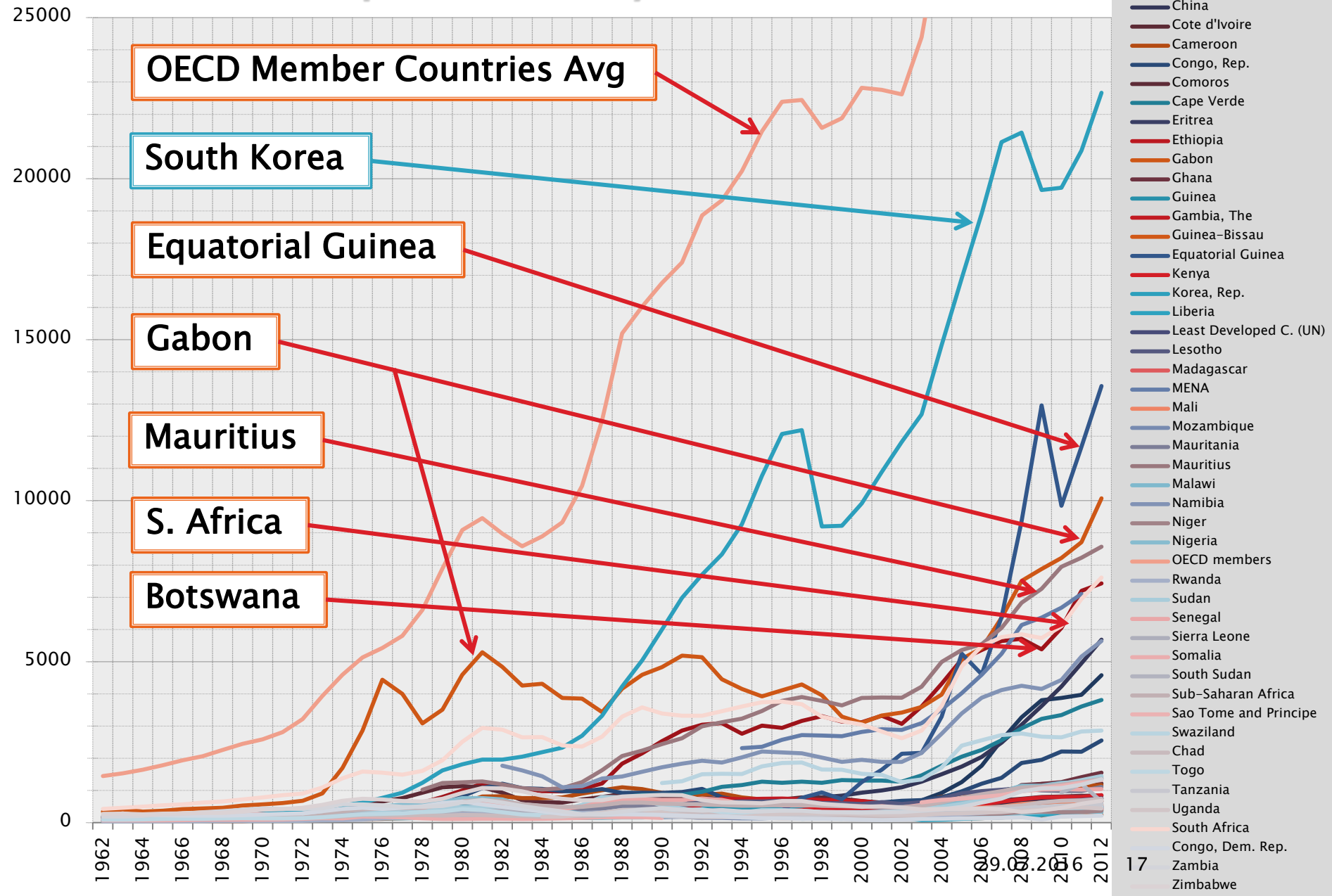
Source: [United Nations](#)

# African GNI per country (~1980)



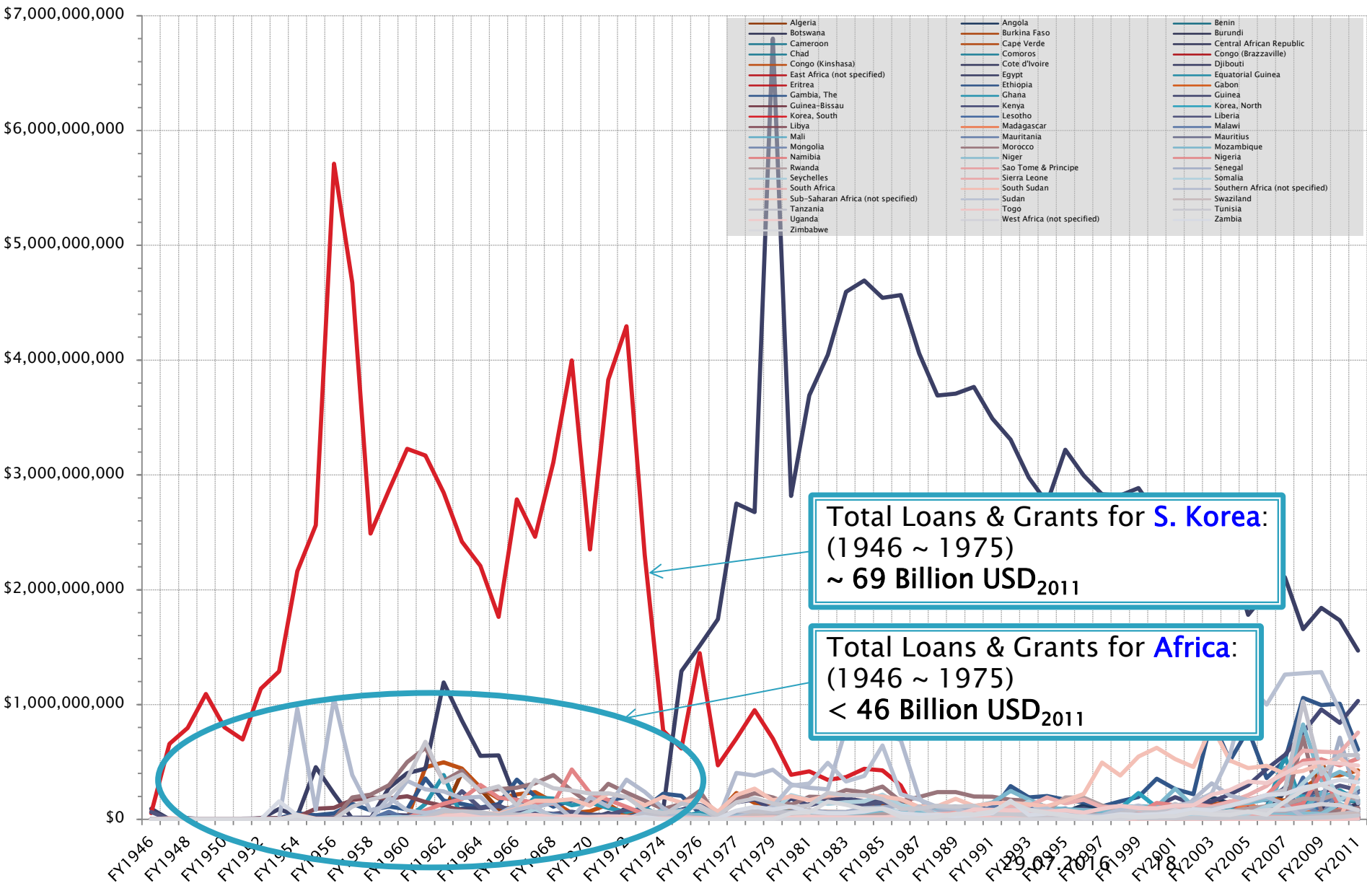
# African GNI per country (~2012)

R12



# US Aid to Africa vs.... Korea

R14





# Important Question... and Wrong Answer

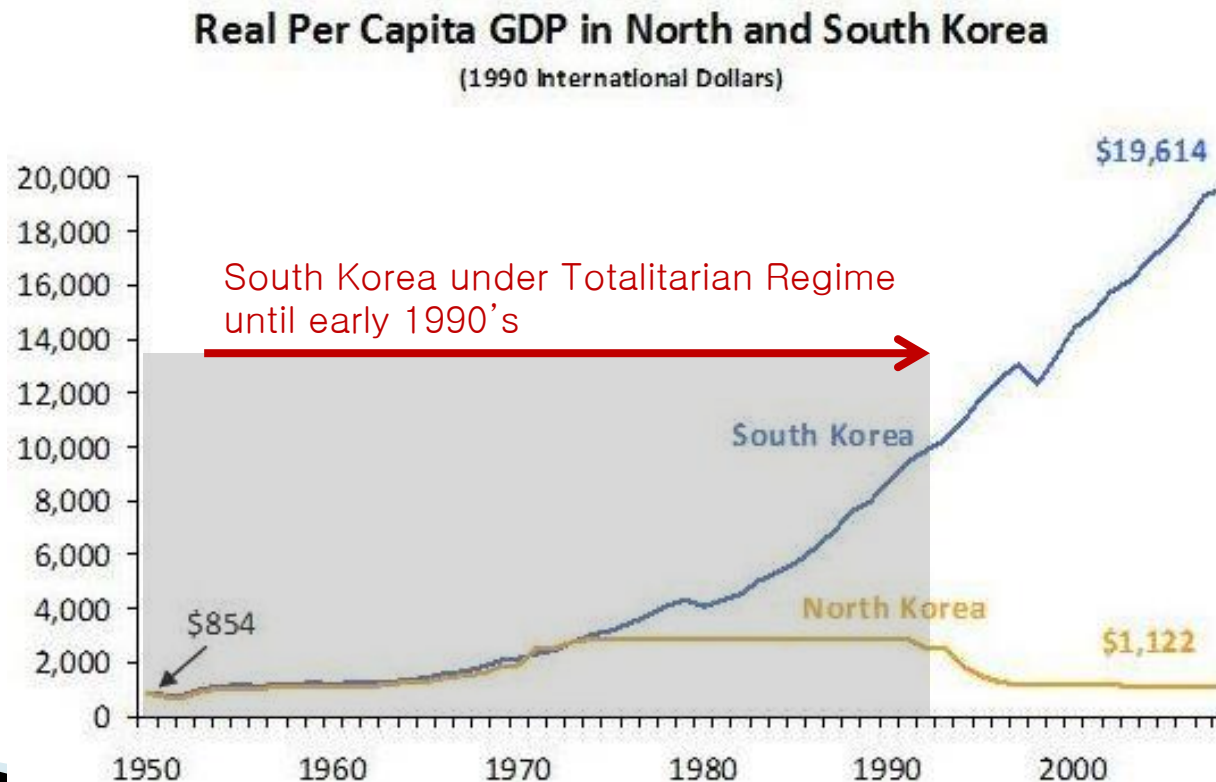
- ▶ Why Korea grew so fast in Economic Development?
  - Thanks to its **Infrastructure** – Railway, Road, Telecom?
    - All are destroyed during Korean War (1950–1953)





# Important Question... and Wrong Answer

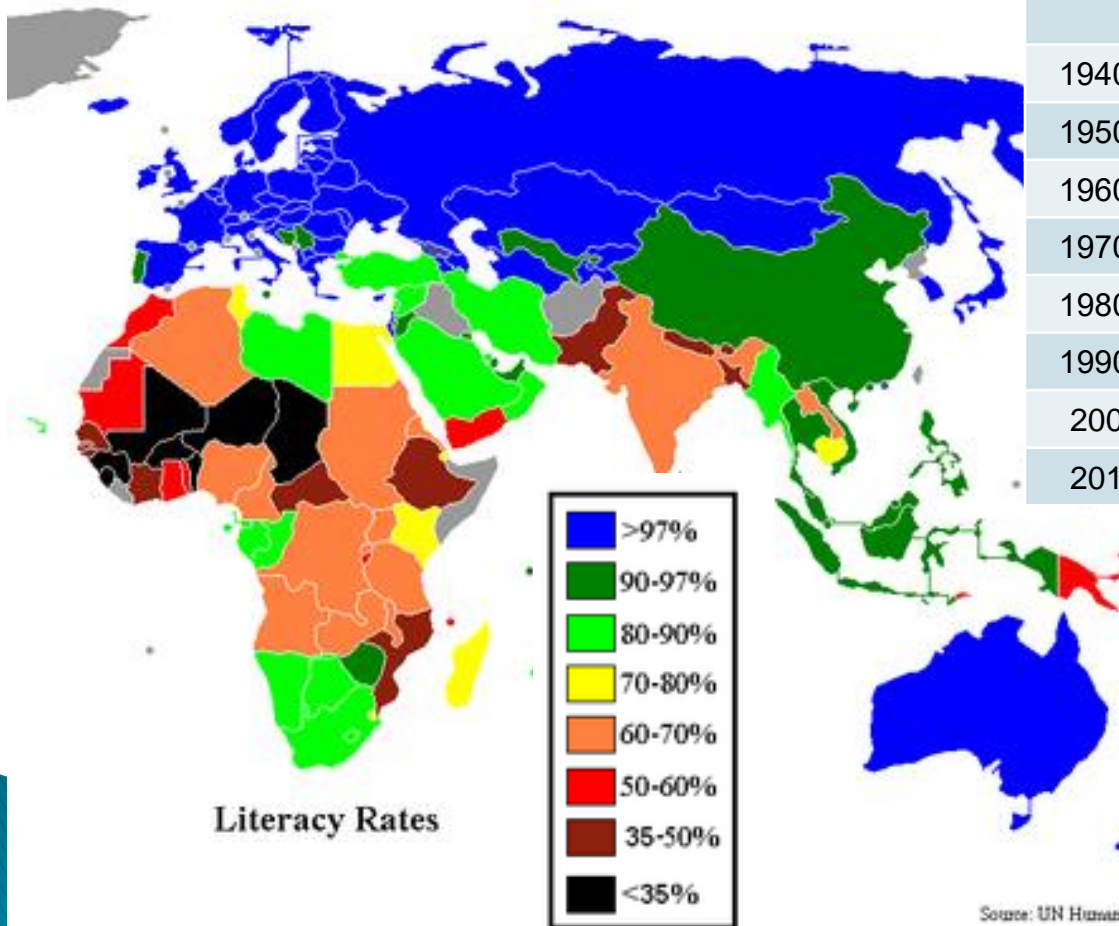
- ▶ Why Korea grew so fast in Economic Development?
  - Thanks to its **Democracy**?
    - North Korea has developed as fast as South Korea until mid 1970's
    - South Korea was under Dictatorship & Totalitarian Regime until early 1990's



# Right Answer to this question

- ▶ Why Korea grew so fast in Economic Development?
  - Thanks to its **Human Capital** !!

## 1. Literacy



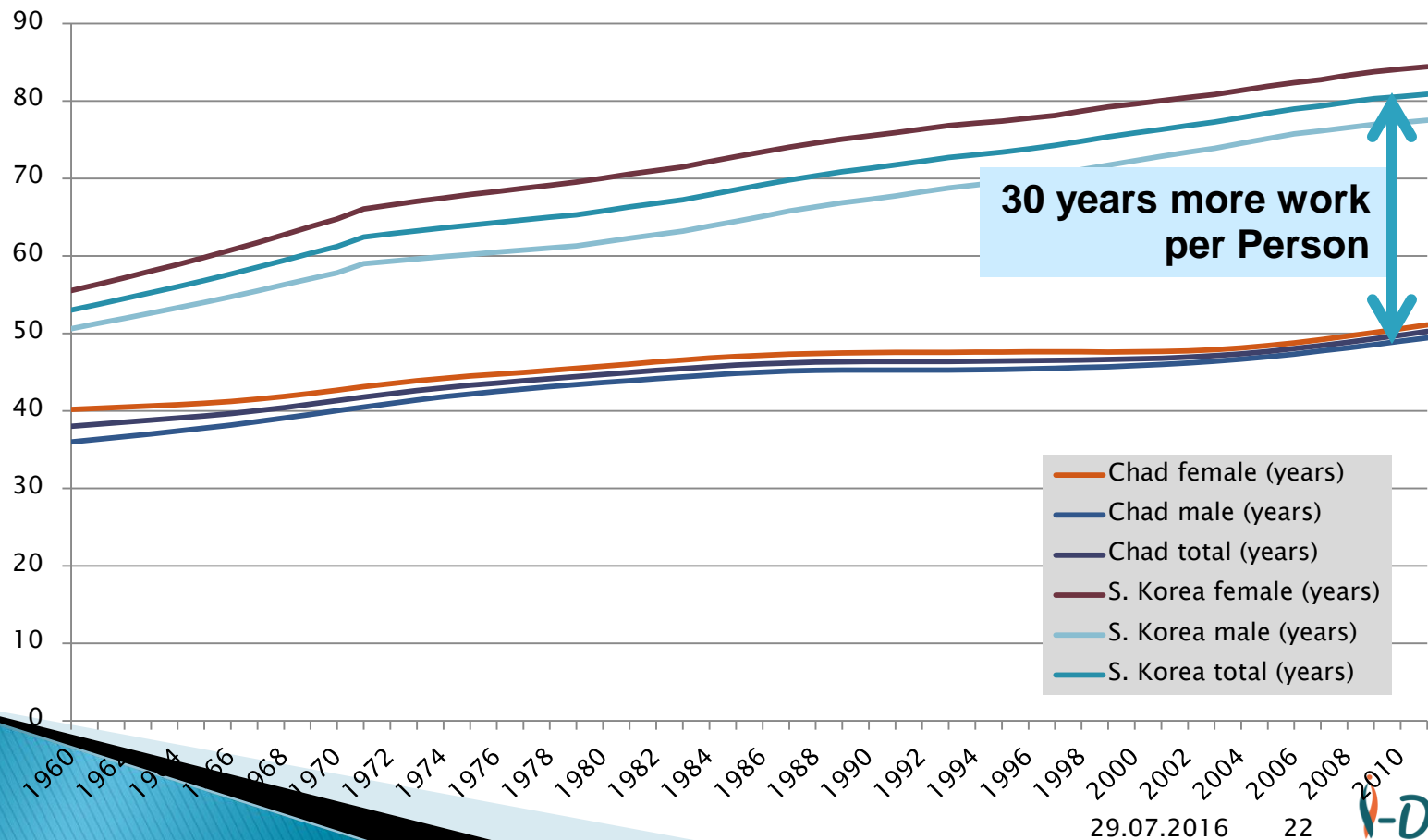
Literacy	S. Korea	Chad (Age 15-24)		
		Male	Female	Total
1940's	25 %			
1950's	60 %			
1960's	80 %			
1970's	93 %			
1980's	95 %			
1990's	97.8 %	26.2 %	8.9 %	17.3 %
2000	99.0 %	55.7 %	23.2 %	37.5 %
2010	99.5 %			

50 years difference

twice more qualified labours

# 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 ?



# So, what should we do, now?





# From our own compassion

- ▶ We would like to exercise **responsible virtues**
  - Avoid blind aid
  - Contribute / Donate Talent, Time and Money as we can afford
  - Become a Good Neighbor, not a good parrain/dictator...

Love is to **GIVE** and  
to **FORGIVE**...

Selfishness is to **GET** and  
to **FORGET**...

Let's give them hope & smile



# Creation of I-DREAM 동반성장 연구회

Appropriate Technology  
for Sustainability and Survival

LAAS-CNRS

심창현

# Creation of I-DREAM 동반성장 연구회

▶ Inclusive Development Research Association for Mankind

▶ Objective:

- Afin d'améliorer la qualité de vie et d'augmenter l'indépendance économique des communautés régionales défavorisées dans le monde, l'association étudie et met au point des forums pour promouvoir l'échange des savoirs-faire, des ressources et des techniques des membres associés et les partenaires d'extérieurs.
- In order to improve the quality of life and increase the economic independence of the developing regional communities in the world, the association undertakes studies and organizes forums to promote the exchange of know-how, resources and skills among the association members and external partners.
- 세계 각처 지역 공동체의 경제적 자립과 삶의 질 향상을 위하여 협회의 회원들과 외부 파트너 기관들이 가지고 있는 기술, 정보, 자원을 결집할 수 있는 장을 창출한다.



# Creation of I-DREAM 동반성장 연구회

## ▶ Association Creation Assembly 창립총회

- 2014.3.21 Assembly #1
- 2014.4.02 Assembly #2

## ▶ Association Registration 협회 등록

- 2014.5.3  
Registration confirmed



146<sup>e</sup> année. - N° 18

Samedi 3 mai 2014

ANNEXE AU  
JOURNAL OFFICIEL  
DE LA RÉPUBLIQUE FRANÇAISE  
LOIS ET DÉCRETS



D.I.L.A.  
CivilitéPublication  
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Standard .....01.40.58.75.00  
Annonces .....01.40.58.77.56  
Accueil commercial....01.40.15.70.10  
Abonnements.....01.40.15.67.77  
(8 h 30 à 12 h 30)

Associations  
Associations syndicales  
de propriétaires

Fondations d'entreprise  
Fonds de dotation

Annonce n° 1407 - page 2138

75 - Département de Paris

ASSOCIATIONS

Créations

Déclaration à la préfecture de police.

**INCLUSIVE DEVELOPMENT RESEARCH ASSOCIATION FOR MANKIND (I-DREAM).**

**Objet :** afin d'améliorer la qualité de vie et d'augmenter l'indépendance économique des communautés régionales défavorisées dans le monde, l'association étudie et met au point des forums pour promouvoir l'échange des savoirs-faire, des ressources et des techniques des membres associés et les partenaires d'extérieurs.

**Siège social :** 60, rue Emeriau, 75015 Paris.

**Site internet :** [idream4all.blogspot.com](http://idream4all.blogspot.com).

**Date de la déclaration :** 14 avril 2014.



# I-DREAM : Activity Reports

Date	Event	Place
07.2013	Inclusive Development Session	EKC 2013, Brighton UK
10.2013	Inclusive Development Session	VeKNI 40 <sup>th</sup> Anniversary GA, Germany
11.2013	Inclusive Development Keynote speech	KOSEAA GA, Vienna Austria
12.2013	Visit to Good Neighbors Int'l in Chad	N'Djamena, Chad
05.2014	Children Book Donation Campaign in Paris (sent 14 boxes (250 kg) to GNI Chad)	Paris, France
06.2014	Paris Seminar on Inclusive Development	OECD Korean Embassy, Paris, France
07.2014	Inclusive Development Session & Workshop Visit to GrAT on 26.07.2014	EKC 2014, Vienna Austria
10.2014	Presentation of Inclusive Development Conference for Energy and Environment in Chad 2015	KSEAUK 40th Anniversary GA, E&E Group Creation Ceremony, Glasgow, UK
12.2014	Children Book Donation Campaign in Paris (sent 28 boxes (500 kg) to GNI Chad)	Paris, France
12.2014	ASCoF Paris Meeting Presentation on Lessons from Korea for African neighbors	ASCoF Paris Chapter End of year meeting, Paris, France
02.2015	Int'l Conference on Inclusive Development in Chad	Sarh University, Sarh, Chad

# I-DREAM : Activity Reports

## ▶ Regular Activities

- Monthly Meeting by Skype 월례회의
  - Member's introduction and information exchange
  - Book Club
    - E. Schumacher – Small is Beautiful
  - Appropriate Technology Seminar – one subject per month
- Book Donation
  - Twice Book Donation sent to Good Neighbors Chad in 2014
  - Next Book Collection in Paris : 30 May 2015 – Springfest, EJM

## ▶ Occasional Activities

- Off-line Meetings & Seminars 오프라인 모임 및 세미나/포럼
  - 06.2014 Paris Seminar (@OECD meeting room, Paris)
  - 12.2014 Offline Meeting in Frankfurt (@Mr. H. JI)

# I-DREAM : Activities so far...



**Compassion and Virtue**  
*for African Dreams...*

**ANTENNA**  
Research for progress

**Spirulina :**  
a sustainable solution against malnutrition  
and a development tool



# I-DREAM : Activities so far...

EKC  
EU-KOREA C





# I-DREAM : Activities so far...

- ▶ Book Donation in Dec. 2014



# I-DREAM : Activities so far...

## Conférence Internationale 2015

sur le *Développement Inclusif*  
avec la *Technologie Appropriée*

**La première étape pour changer notre vie**

Date: 9 ~ 11 février 2015 (3 jours)

Heure: 09:00 ~ 17:00 (1<sup>er</sup> jour 09/02/15 début à 14:00)

Lieu: Université de Sarh



# I-DREAM : Activities so far...

## ▶ Inclusive Development Conference in Chad 2015

### Objectives

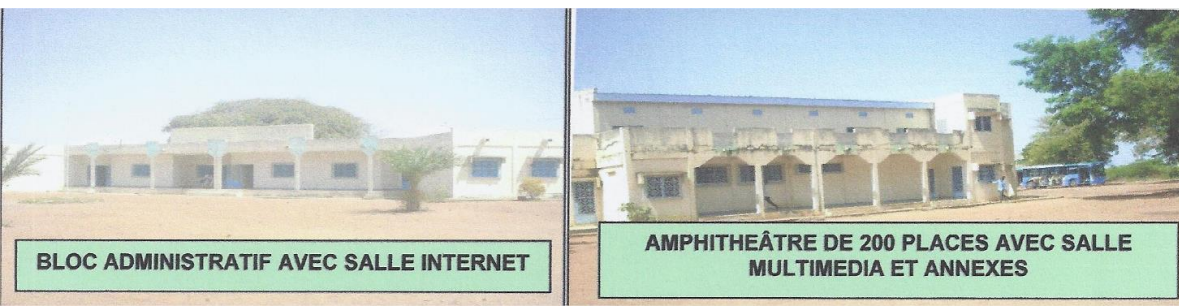
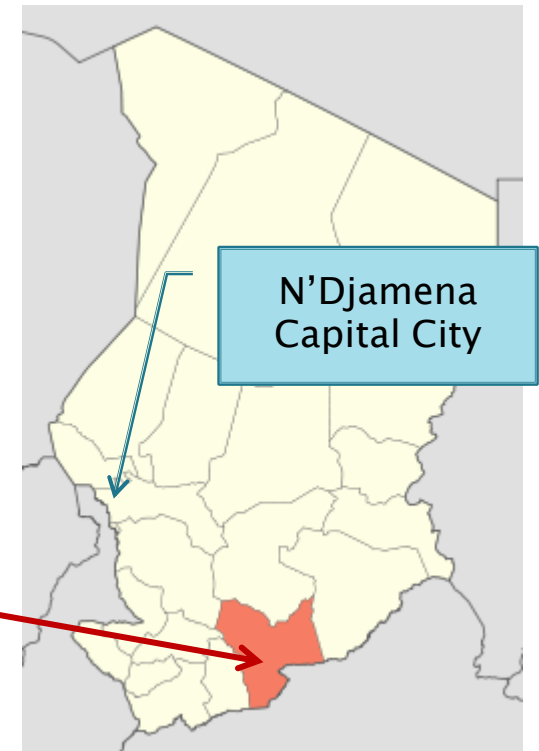
- Promote the idea of the **Inclusive Development** in the World, in particular the young generation of Chad
- Demonstrate to Chadians the **Current Status and Trend** of the science and technology development in the world, which in turn would bring hopes for the economic development of Chad.
- Propagate the idea of the **Mutual Responsibility** to all foreign participants, by showing the status of Chad today, and share the same vision for the Inclusive Development.



# I-DREAM : Activities so far...

## ► Inclusive Development Conference in Chad 2015

- venue: University of Sarh, Chad
  - date: 9 Feb. ~ 13 Feb. 2015
  - Satellite events:
    - Science Education Seminar in Chad
    - Appropriate Technology Idea Contest (ATIC)
- Location
  - University of Sarh –  
Institute of Agronomic and Environmental  
Sciences





# I-DREAM : Activities so far...



# I-DREAM : African Project Team

- ▶ **African Project Team inaugurated since May 2015:**
  - **Architecture / Building Support**
  - **Education Support**
  - **Industrial and Community Development Support**
  - **Eco-village**
  - **Water Resources Management Support**
- ▶ **1<sup>st</sup> project started for Chad Training Centre building**
- ▶ **Discussion on-going for Tanzania / Kenya projects...**



# I-DREAM : African Project Team

- ▶ 2016.1 ~ Education Centre Construction Support



# I-DREAM : African Project Team

- ▶ 2016.1 ~ Education Centre Construction Support
  - Construction = Training Center + Visitors Guest House
  - Training Centre / Scientific education
  - Enterprise Incubation / Appropriate Technology development  
... and many more applications
  - Planned completion: **early 2017**





# I-DREAM : African Project Team





# AT Camp for European Koreans in 2016

**EKC2016** Europe-Korea Conference on  
Science and Technology

EKC2016

Call for Papers

Important Dates

Programme

Committees

Satellite Programme

Access

Jobs

**Europe-Korea Conference on Science and Technology**  
**27-30 July 2016**  
**Berlin, Germany**

Co-organisers



Europe-Korea Conference on Science and Technology (EKC) provides an outstanding opportunity to Korean and European scientists and engineers to develop friendship and to exchange useful knowledge and bright ideas.

This year's EKC, the EKC 2016, will be held in Berlin, Germany from 27th to 30th July 2016 with the theme "Science, Technology and Humanity: Gateway to the Future". It will be hosted by the Korean Scientists and Engineers Association in Germany (VeKNI) together with the Korean Federation of Science and Technology Societies (KOFST) and 8 other Korean Scientists and Engineers Associations in Europe which are in France (ASCoF), the UK (KOSEAA), Austria (KOSES), Finland (KSSEA), the Netherland (KOSEANL), Switzerland (KSEAS) and Belgium (KOSEAbel).

29.07.2016

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핀란드 한인과학기술인 협회



# AT Camp for European Koreans in 2016

뜻있는 공학도들의 적극적인 참여를 요청합니다.

## 소외된 90%를 위한 공학설계 아카데미

대상 나눔을 실천하려는 모든 사람들  
일시 2009년 8월 11일 (월) ~ 2009년 8월 17일 (수)  
장소 한동대학교 효암캠퍼스 3층  
주최 크리스천 과학기술인 포럼  
@603/www.idonggreen.or.kr  
주관 한동대학교 공학교육혁신센터  
참가비 0원  
등록기간 2009년 8월 2일 (월) ~ 7월 15일 (목)  
연락처 김정건사 (크리스천 과학기술인 포럼,  
011-9011-4317, pascience@gmail.com)  
김지원 연구원 (한동공학교육혁신센터,  
054-260-1528, jady@handong.edu)



LifeStraw [휴대용 정수기]



## 소외된 90%를 위한 공학설계 아카데미

\대상 나눔을 실천하려는 모든 사람들 \일시 2009년 7월 23(목) - 25(토) \장소 한동대학교 효암캠퍼스 3층  
\주최 크리스천과학기술인 포럼 \주관 한동대학교 공학교육혁신센터  
\참가비 10만원 \등록기간 2009년 6월 1일(월) ~ 7월 3일(금)  
\연락처 김정건사 (크리스천 과학기술인 포럼, 042-8 63-7775, cise1004@gmail.com)  
김지원 연구원 (한동대학교 공학교육혁신센터, 054-260-1528, jady@handong.edu)

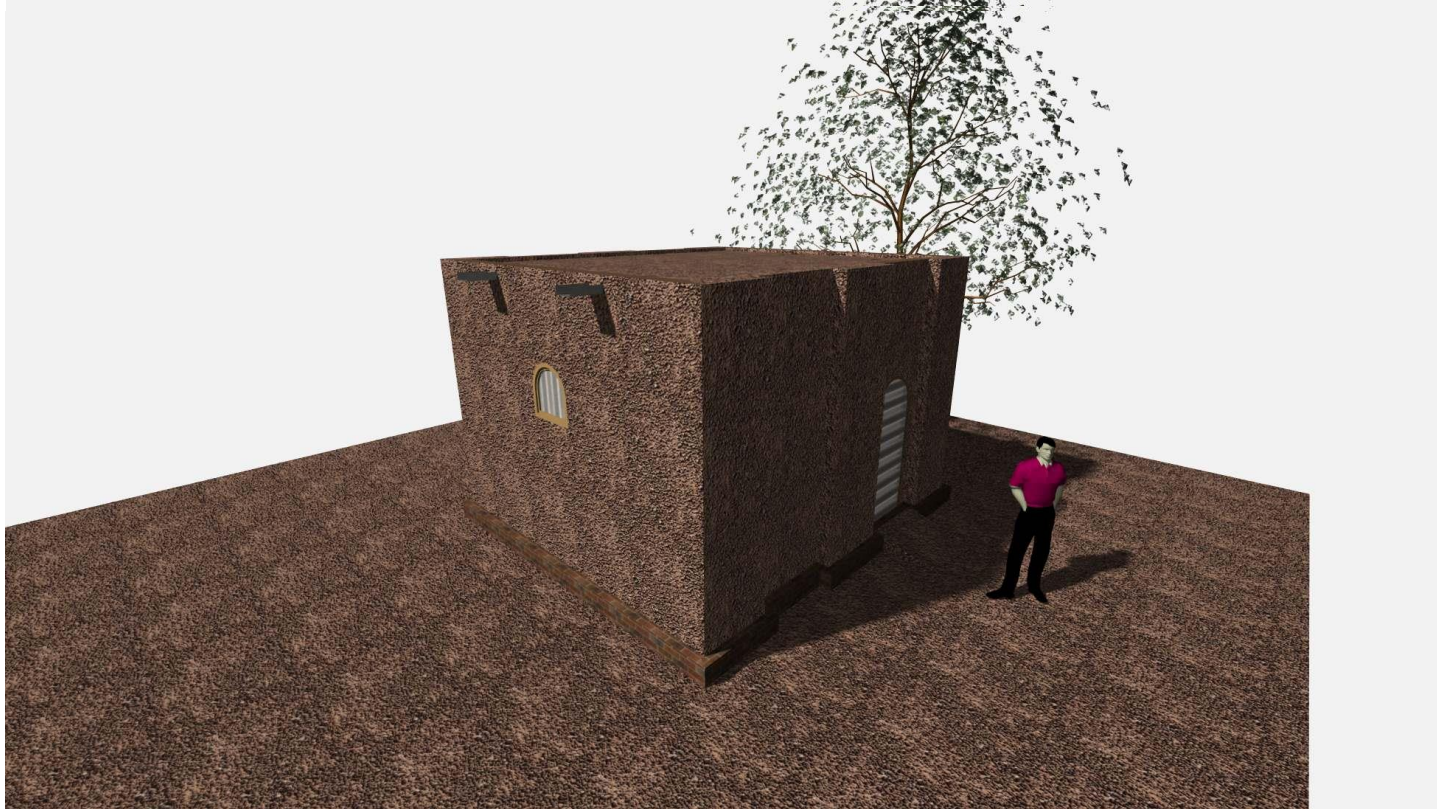
# I-DREAM : Future Projects

- 1) Regular and periodic Book donation to Chad (and to other communities, such as Tanzania)
- 2) African Projects
  - N'Djamena Training Centre Construction Support
  - Housing Improvement Project in Chad (a.k.a 3x4 house)
  - Scientific Education Program Development for Africa
  - Community Development, Eco-Village, Environmental friendly habitation in Africa
- 3) Annual Appropriate Technology Camp for Youngsters in Europe
- 4) And more from your own ideas ...



# I-DREAM : Future Projects

- ▶ 3x4 House Project in Chad



# I-DREAM welcomes you...

- ▶ Visit our web site: <http://www.idream4all.org>
- ▶ Membership is open to all who share the same compassion and virtue for mankind
- ▶ Thank you for your kind attention & support ...



# References

Ref.	Source Description
R01	Snapshot from "The Known Universe", developed by American Museum of Natural History in partnerships with Rubin Museum of Art
R02	"The Big Bang", Rhys Taylor, Cardiff University, <a href="http://planck.cf.ac.uk/science/timeline/universe">http://planck.cf.ac.uk/science/timeline/universe</a>
R09	OECD Library - Development Co-operation Report, <a href="http://www.oecd-ilibrary.org/development/development-co-operation-report_20747721">http://www.oecd-ilibrary.org/development/development-co-operation-report_20747721</a>
R10	P.a.p-Blog / Human Rights Etc., <a href="http://filipspagnoli.wordpress.com/tag/international-development-aid/">http://filipspagnoli.wordpress.com/tag/international-development-aid/</a>
R11	ODA Factsheet, iDevelopment Initiatives, <a href="http://devinit.org/factsheet/factsheet-oda/">http://devinit.org/factsheet/factsheet-oda/</a>
R12	GNI per capita, Atlas method, The World Bank, <a href="http://data.worldbank.org/indicator/NY.GNP.PCAP.CD">http://data.worldbank.org/indicator/NY.GNP.PCAP.CD</a>
R14	US Data.gov <a href="https://explore.data.gov/Foreign-Commerce-and-Aid/U-S-Overseas-Loans-and-Grants-Greenbook-/5gah-bvex">https://explore.data.gov/Foreign-Commerce-and-Aid/U-S-Overseas-Loans-and-Grants-Greenbook-/5gah-bvex</a>
R18	Human Development Report, <a href="http://en.wikipedia.org/wiki/Human_Development_Report">http://en.wikipedia.org/wiki/Human_Development_Report</a>
R19	Nic Marks - The Happy Planet Index @TED, <a href="http://www.ted.com/talks/lang/en/nic_marks_the_happy_planet_index.html">http://www.ted.com/talks/lang/en/nic_marks_the_happy_planet_index.html</a>
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R24	UN DP New Sustainable Development Goals (SDG): <a href="http://www.worldwewant2030.org">http://www.worldwewant2030.org</a>
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