MUNI | RECETOX Baylor University

E0320, CORE003

Udržitelný rozvoj – největší výzva současnosti?



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Jak se teď cítíte?











Rozvoj společnosti – co je to?

V Česku se žije líp než v USA, v kvalitě života jsme 24. ze 149 zemí

18. září 2019 7:17. aktualizováno 8:42



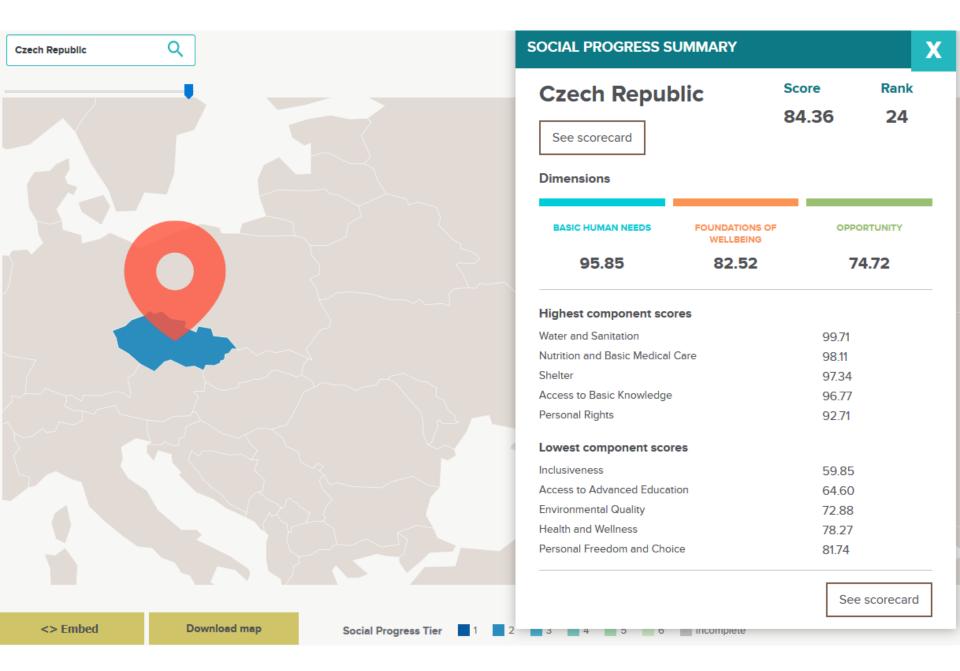
Česko je v kvalitě života podle nového indexu společnosti Deloitte na 24. místě. Společnost sestavuje žebříček ze 149 hodnocených zemí. Oproti loňsku si Česká republika polepšila o dvě příčky, je i před USA. Prvenství udrželo Norsko, na druhé místo poskočilo Dánsko, bronz obhájilo Švýcarsko. Nejhůř se žije lidem v Africe.



ilustrační snímek | foto: Jan Pešek, MF DNES

Na konci hodnocení se umístily africké státy Čad či Středoafrická republika a poslední je Jižní Súdán. Žebříček sestavuje společnost Deloitte každoročně s





Czech Republic ▼

Social Progress Index GDP PPP per capita 84.36/100 \$33,414 rank 24/149 30/149



The scorecard highlights a country's relative strengths and relative weaknesses compared to 15 peer countries with a similar GDP per capita. Elements of the Social Progress Index are marked with a blue dot where the country performs comparatively well, a red dot where it performs relatively poorly, a yellow dot where its performance is average for its peer group, and a gray dot when there isn't sufficient data to make a judgment. Elements marked with a blue ring are areas where the country slightly over-performs while areas where the country slightly under-performs are marked with a red ring.

Basic Human Needs	score/ value 95.85	rank 15	strength/ weakness	Foundations of Wellbeing	score/ value 82.52	rank 31	strength/ weakness	Opportunity	score/ value 74.72	rank	strength/ weakness
Nutrition and Basic Medical	98.11	17		Access to Basic Knowledge	96.77	13		Personal Rights	92.71	30	
Care				Adult literacy rate	99.00	1		Political rights	36.00	31	
Undernourishment	2.50	1		Primary school enrollment	No d	ata		Freedom of expression	0.93	27	
Maternal mortality rate	5.42	15		Secondary school enrollment	91.00	33		Freedom of religion	3.46	79	
Child mortality rate	3.30	12		Gender parity in secondary enrollme	nt 1.01	1		Access to Justice	0.95	21	
Child stunting Deaths from infectious diseases	3.77 18.36	26 27		Access to quality education	3.75	9		Property rights for women	4.88	7	
Water and Sanitation	99.71	17		Access to Information and Communications	82.15	43	0	Personal Freedom and Choice	81.74 13.91	21	
Access to at least basic drinking	99.88	27		Mobile telephone subscriptions	119.01	1		Early marriage	0.00	1	
water				Internet users	78.72	36		Satisfied demand for contraception	85.20	22	
Access to piped water	99.88	21		Access to online governance	0.62	85		Corruption	59.00	33	
Access to at least basic sanitation facilities	99.13	26		Media censorship	3.48	29		Corruption	59.00	33	
Rural open defecation	0.00	1						Inclusiveness	59.85	37	
				Health and Wellness	78.27	31		Acceptance of gays and lesblans	43.59	38	
Shelter	97.34	20	0	Life expectancy at 60	22.12	47		Discrimination and violence against			
Access to electricity	100.00	1		Premature deaths from non-	295.47	50		minorities	4.80	47	
Quality of electricity supply	6.50	17		communicable diseases	00.54	20		Equality of political power by gender	2.24	57	
Household air pollution attributable deaths	0.96	44		Access to essential services Access to quality healthcare	88.61 3.53	29 21		Equality of political power by socioeconomic position	2.57	42	
Access to clean fuels and technology for cooking	97.13	42	•	Environmental Quality	72.88	50		Equality of political power by social group	3.05	32	
Personal Safety	88.25	16	0	Outdoor air pollution attributable deaths	27.47	76	0	Access to Advanced	64.60	10	
Property crime rate	0.61	11		Greenhouse gas emissions	396.16	67		Education			
Perceived criminality	2.00	8		Blome protection	17.00	1		Years of tertlary schooling	2.93	47	
Political killings and torture	0.95	15						Women's average years in school	12.60	16	
Traffic deaths	7.74	30						Globally ranked universities	16.00	28	
The state of the s	7.7	50						Percent of tertiary students enrolled in globally ranked universities	65.00	5	•

Jaké GLOBÁLNÍ výzvy považujete za nejnaléhavější?

Výživa a základní zdravotní péče Svoboda a možnost volby Dostupné bydlení Osobní bezpečnost Garance lidských práv Dostupnost základního vzdělání Přístup k informacím Dostupné a kvalitní zdravotnictví Rovnost mezi Ženami a muži a inkluzivnost Kvalita životního prostředí Dostupnost vyššího vzdělání Dostupnost pitné vody a kvalitních záchodů



Home >

The Millennium Development Goals

Eight Goals for 2015



Eradicate extreme poverty and hunger



Achieve universal primary education



Promote gender equality and empower women



Reduce child mortality



Improve maternal health



Combat HIV/AIDS, malaria and other diseases



Ensure environmental sustainability



Develop a global partnership for development



Final assessment of progress toward achieving the MDGs

The most successful antipoverty movement in history

An inspiring framework that has led to many successes in numerous development areas since 2000

The successes of the MDG agenda prove that global action works. It is the only path to ensure that the new development agenda leaves no one behind

The Millennium Development Goals Report 2015





Photo: @ UNICEF/Syed Altaf Ahmad

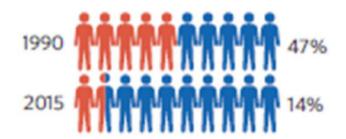




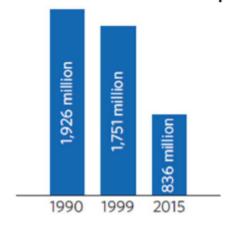
Poverty rates have been more than halved

Goal: Eradicate extreme poverty and hunger

Extreme poverty rate in developing countries



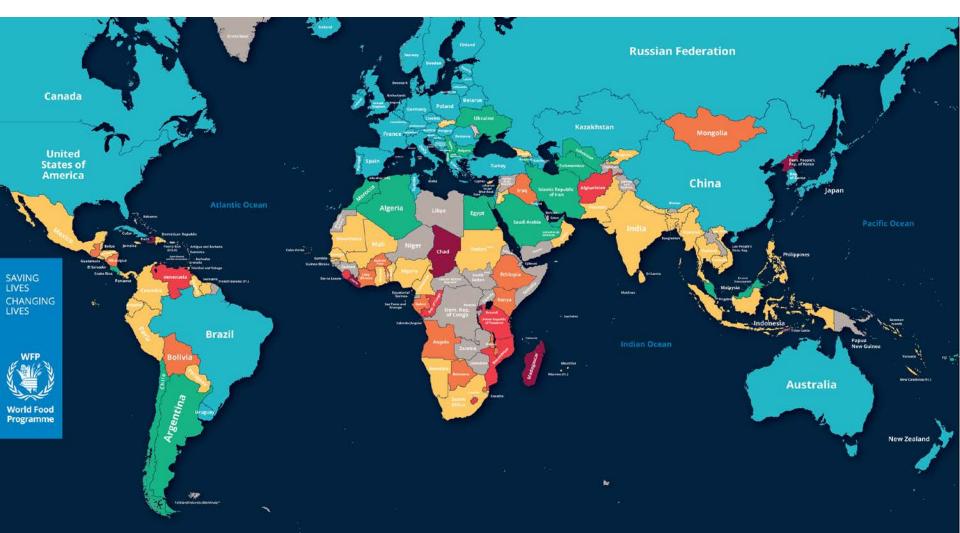
Global number of extreme poor



In 1990, nearly half of the population in the developing world lived on less than \$1.25 a day; that proportion dropped to 14 per cent in 2015.

This translates to over 1 billion people lifted out of extreme poverty.

The proportion of undernourished people in the developing regions has fallen by almost half since 1990.



Hunger Map 2020 CHRONIC HUNGER

If current trends continue, the number of hungry people will reach 840 million by 2030

AVAILABLE

5-14,9% 15-24,9% 25-34,9% DATA NOT

Prevalence of undernourishment in the total population (percent) in 2017-19

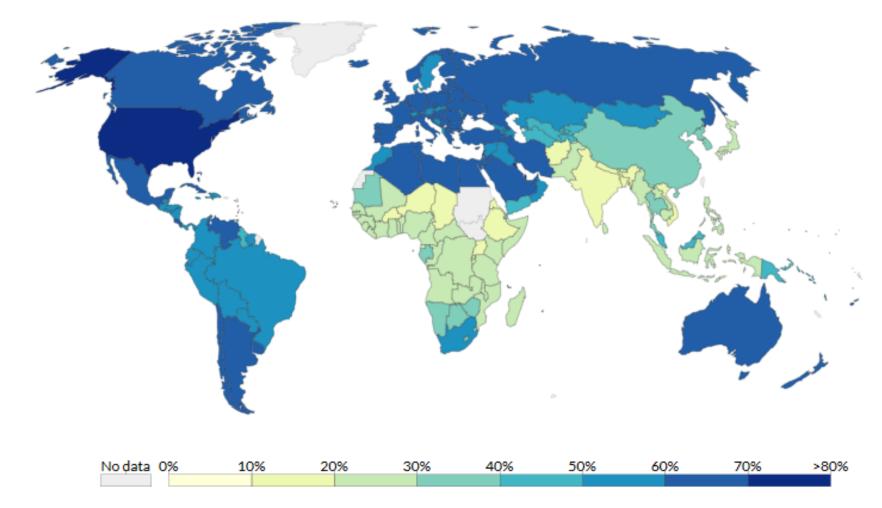
Je celosvětová produkce potravin nedostatečná?

Ano, musí se zvýšit Ne, je dostačující

Share of adults that are overweight or obese, 2016



Being overweight is defined as having a body-mass index (BMI) greater than or equal to 25. Obesity is defined by a BMI greater than or equal to 30. BMI is a person's weight in kilograms divided by his or her height in metres squared.



Source: WHO, Global Health Observatory

CC BY

1975







DATA SOURCES







1.5 BILLION

ADULTS ARE OVERWEIGHT

HIGHER HEALTH CARE COSTS COMPARED TO A PERSON OF AVERAGE WEIGHT

43 MILLION UNDERSARE

That's almost 7%

WORLD'S **FATTEST** COUNTRIES

NAURU

overweight

COOK TONGA ISLANDS 90.9% 90.8% overweight

FSM

91.1%

4

SAMOA

overweight

KUWAIT

74 NIUE

overweight

PALAU

overweight overweight

USA KIRIBATI 73.6% 74.1% overweight overweight

In Japan. about one-in every-20 adult women is obese, compared to one-in-10 in the Netherlands, one-in-four in

Jordan, one-inthree in the United States and Mexico, and up to seven-in-10 in Tonga.

OF THE WORLD'S POPULATION LIVE IN COUNTRIES WHERE THEY ARE MORE LIKELY TO DIE FROM ORESITY THAN MALNUTRITION

YOU NEED TO BURN

3500

CALORIES TO DROP A SINGLE

POUND OF

BODY FAT

That's about 9 hours on the

elliptical

BY THE NUMBERS:

200 & 300 MILLION WOMEN

ARE OBESE. THAT'S MORE THAN

AND THE PROBLEM IS GROWING

4.8%

OBESITY OBESITY IN 1980 IN 2008 7.9% 13.8% OF WOMEN OF WOMEN

Overweight

and obese

are defined

as abnormal or excessive fat accumulation that

may impair health.

9.8%

OF MEN

ANNUAL HEALTH CARE COSTS FOR OBESITY IN THE U.S. AND CANADA

SEVERELY OBESE PEOPLE DIE UP TO

10 YEARS SOONER

THAN THOSE OF NORMAL WEIGHT

ACTOSINJURYLAWYERS.COM

BMI=KG/M²

Body mass index (BMI) is a simple index of weight-for-height that is commonly used to classify overweight and obesity in adults. To determine your BMI, divide your weight in kilograms by the square of your height in meters.

(For those that don't do metric, that's your weight in pounds x703, divided by your height in inches squared, or 703Lb/I2)

WHAT'S YOUR BMI?

SOURCES: www.hirehealthmedia.com/world-obesity-stats-2010/; www.bhr.com/heww/health-12357/85; www.infuplecos.com/world/statistics/obesity-hines-www.healthmedia.com/world-statistics/obesity-hines-rising-world-defi-de-we-ould-shi-obe-p-2010/hine-wrise-steening-world-defi-de-we-ould-shi-obe-p-2010/hine-wrise-steening-world-desex-2010/JCI/docy2010/hine-www.codries-gebourcom/hunoia_JOurd-July-hite/jh/dochart-July-comcom/2011/08/25/study-world-is-getting-fatter-needs-to-stop/; www.dailyspark.com/blog.asp?post=the_10_worst_foods_of_2010; http://www.prb.org/Ar-



Food Facts

Hunger

▶ Donate Food
▶ And Food

	World Hunger
7,176,725,041	current total world population
898,139,570	undernourished people in the world right now
	ng
1,579,478,802	overweight people in the world right
1,575,470,002	now
F26 402 024	about a soule in the sound right accord
526,492,934	obese people in the world right now
16,283	people who died of hunger today
10,203	people wito died of fidinger today
7,551,816	people who died of hunger this year
, ,551,616	people will died of hanger tills year
	Economics
\$ 253,378,128	money spent due to obesity related
. , ,	diseases in the USA today
	spending on food purchased and then
\$ 62,609,837	tossed by US households today
\$ 2,911,231	spending on global food aid today
\$ 18,927,594	amount that would allow to feed the hungry today
\$ 100,653,291	spending on weight-loss programs and
ψ 100,000,291	products in the USA today
	food aid budget spent on domestic
\$ 872,451	processing and shipping today
# F00 60F	revenue for four large US agribusiness
\$ 509,695	corporations derived from food aid programs today
	'
\$ 24,754,648	spending on pet food in Europe and
\$ 2.77.041040	USA today

Global report: Obesity bigger health crisis than hunger

By Danielle Dellorto, CNN

December 14, 2012 -- Updated 1041 GMT (1841 HKT)



Nearly 500 researchers from 50 countries looked at 20 years of health data for the Global Burden of Dise

STORY HIGHLIGHTS

- The Global Burden of Disease Report reveals a massive shift in health trends
- Worldwide, obesity has increased 82% in the last two decades
- · Diseases like stroke and heart

(CNN) -- Obesity is a bigger health crisis globally tha the leading cause of disabilities around the world, ac new report published Thursday in the British medical Lancet.

Nearly 500 researchers from 50 countries compared from 1990 through 2010 for the Global Burden of Dis

The Telegraph



Obesity killing three times as many as malnutrition

Obesity is now killing triple the number of people who die from malnutrition as it claims more than three million lives a year worldwide, according to a landmark study.



Increasing prosperity has led to expanding waistlines in countries from Colombia to Kazakhstan, as people eat more and get less everyday exercise. Photo: PA

By Stephen Adams, Medical Correspondent 5:00PM GMT 13 Dec 2012

204 Comments

With the exception of sub-Saharan Africa, eating too much is now a more serious risk to the health of populations than eating poorly, found the Global Burden of Disease study, published in a special edition of *The Lancet*.





THE MILLENNIUM DEVELOPMENT GOALS (MDGs) ARE THE MOST SUCCESSFUL GLOBAL ANTI-POVERTY PUSH IN HISTORY.

MDG2

PRIMARY SCHOOL ENROLMENT

IN DEVELOPING REGIONS HAS

REACHED 90%



57 MILLION
CHILDREN REMAIN
OUT OF SCHOOL

MOCMOMENT

#MDGMOMENTUM WITH YOUR COMMUNITY!



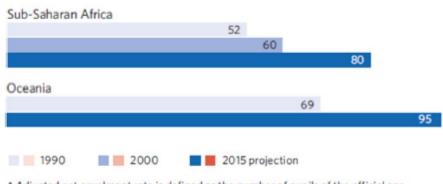
Tremendous progress has been made since 2000 in enrolling children in primary school

Goal: Achieve universal primary education

The developing regions' primary school net enrolment rate has reached 91 per cent in 2015, up from 83 per cent in 2000.

The target is close to being reached in all regions except sub-Saharan Africa. Greatest progress in primary school enrolment among all developing regions occurred in sub-Saharan Africa.

Adjusted net enrolment rate* in primary education, sub-Saharan Africa and Oceania, 1990, 2000 and 2015 (percentage)



^{*} Adjusted net enrolment rate is defined as the number of pupils of the official age for primary education enrolled either in primary or secondary school, expressed as a percentage of the total population in that age group.

Note: 2000 figure for Oceania is not available.

Chodíte rádi do školy?

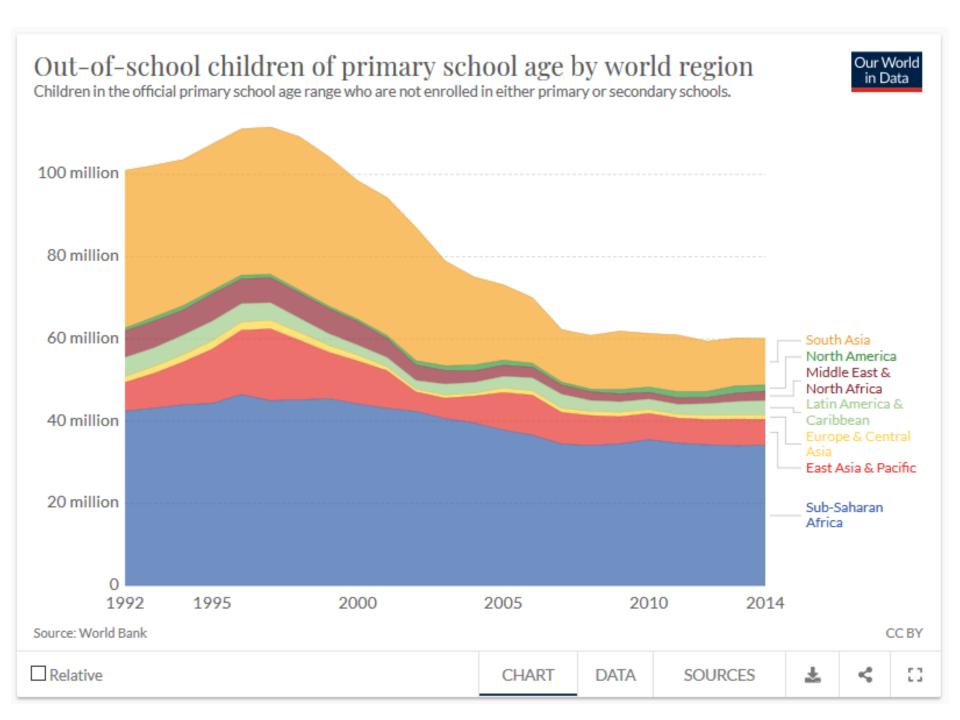
No jasně, jsem lačný/á po vědění.

> Jak na který předmět

Chodím, ale ne kvůli přednáškám ;-)

Ne, škola je "nutné zlo"

HE NAMED ME MALALA





THE MILLENNIUM DEVELOPMENT GOALS (MDGs) ARE THE MOST SUCCESSFUL GLOBAL ANTI-POVERTY PUSH IN HISTOR

AS WE APPROACH THE 2015 TARGET DATE OF THE MDGs

MDGMOMENTUM LET'S RALLY OUR WORLD TO STEP UP

MDG:

THE WORLD HAS

BETWEEN GIRLS AND BOYS

PROMOTE GENDER **EQUALITY AND** EMPOWER WOMEN

LET'S STEP

IN MANY COUNTRIES

WOMENSTILL FACE IN ACCESS TO EDUCATION, WORK AND PARTICIPATION IN DECISION-MAKING.

SHARE MDGMOMENTUM



The developing regions have reached gender parity in primary, secondary and tertiary education

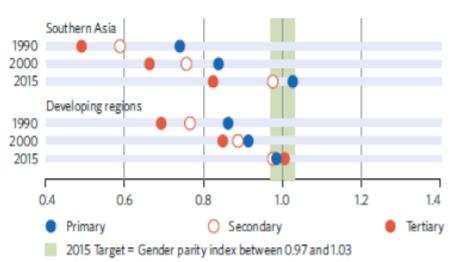
Goal: Promote gender equality and empower women

The developing regions as a whole have achieved the target to eliminate gender disparity in primary, secondary and tertiary education.

In Southern Asia, only 74 girls were enrolled in primary school for every 100 boys in 1990. Today, 103 girls are enrolled for every 100 boys.

Women have gained ground in parliamentary representation in nearly 90 per cent of the 174 countries with data over the past 20 years.

Gender parity index* for gross enrolment ratios in primary, secondary and tertiary education in Southern Asia and the developing regions, 1990, 2000 and 2015



^{*} The gender parity index is defined as the ratio of the female gross enrolment ratio to the male gross enrolment ratio for each level of education.



THE MILLENNIUM DEVELOPMENT GOALS (MDGs) ARE THE MOST SUCCESSFUL GLOBAL ANTI-POVERTY PUSH IN HISTORY.

AS WE APPROACH THE 2015 TARGET DATE OF THE MDGs, LET'S RALLY OUR WORLD TO STEP UP #MDGMOMENTUM

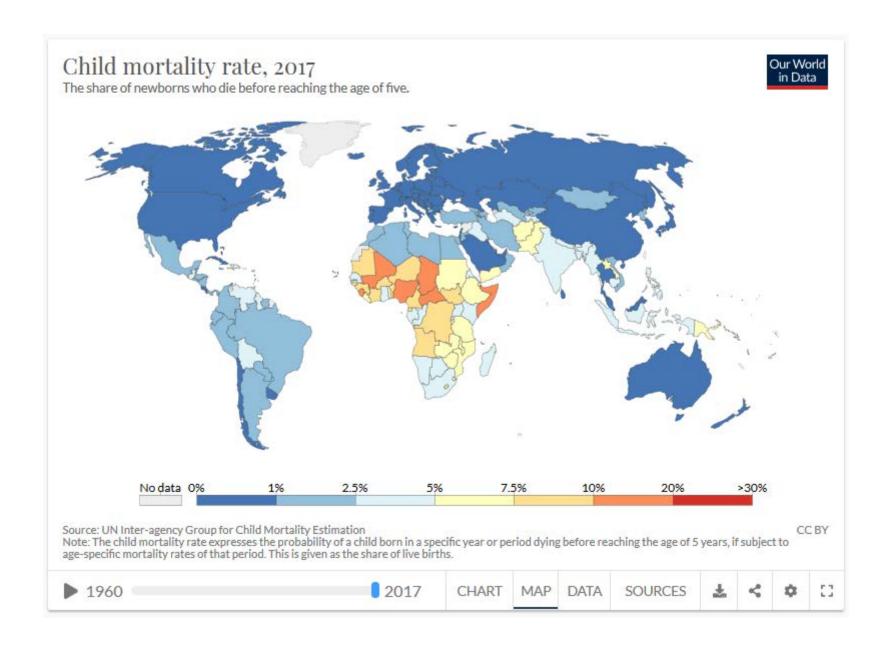
MDG4 REDUCE CHILD MORTALIT

14,000 CHILDREN FEWER DIE EACH MAHT IN 1990

6.9 MILLION CHILDREN

BEFORE THEIR FIFTH BIRTHDAY **EACH YEAR**

SHARE #MDGMOMENTUM WITH YOUR COMMUNITY!



Jaká nemoc ročně zabije nejvíce dětí?

Malárie

Tuberkulóza

Průjem

AIDS

Zápal plic

Jaká nemoc ročně zabije nejvíce dětí?

Malárie

266 tisíc

Tuberkulóza

250 tisíc

Průjem

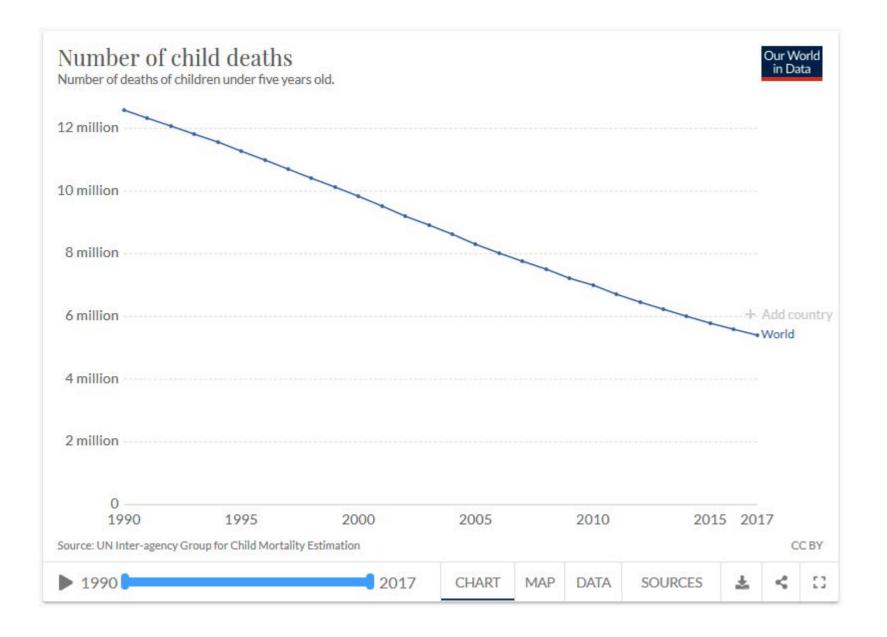
480 tisíc

AIDS

120 tisíc

Zápal plic

900 tisíc





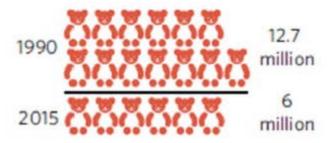
Dramatic decline in preventable child deaths is one of the most significant achievements in human history

Goal: Reduce child mortality



Photo: @ UNICEF/Esiebo

Global number of deaths of children under five



Since the early 1990s, the rate of reduction of under-five mortality has more than tripled globally.

The global under-five mortality rate has declined by more than half, dropping from 90 to 43 deaths per 1,000 live births between 1990 and 2015.

Measles vaccination helped prevent nearly 15.6 million deaths between 2000 and 2013.

Anti-Vaccine Movements Not Unique to the U.S.

Skepticism about vaccinations abounds in other countries as well.



By Teresa Welsh, Staff Writer | Feb. 18, 2015, at 12:01 a.m.







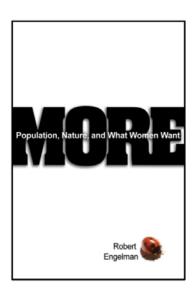




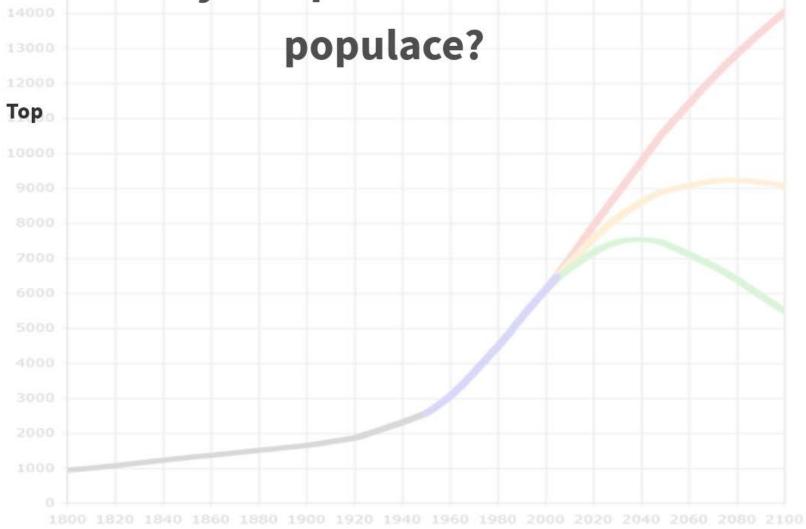


(Dětská) úmrtnost - řešení růstu populace?

- dříve vysoká novorozenecká úmrtnost, nemoci a války



Jaké navrhujete opatření na omezení růstu

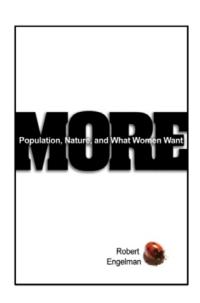


(Dětská) úmrtnost - řešení růstu populace?

- dříve vysoká novorozenecká úmrtnost, nemoci a války

<u>Direktivní politika jednoho dítěte (Čína)</u>

- od roku 1979 do 2015
- do roku 2015 nenarozeno přibližně 400 mil. dětí příčiny?
- vážné etické a socioekonomické důsledky!
- nepřipravenost společnosti a venkovské ekonomiky
- bylo to potřeba?



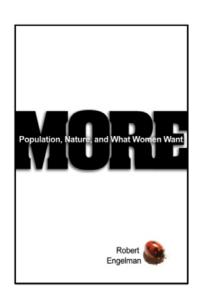
(Dětská) úmrtnost - řešení růstu populace?

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Women don't want **more** children, but **more for** their children (R. Engelman)

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Zázrak? v Bangladéšii (i jinde)...

NEWSLETTERS

Sign up to read our regular email newsletters

NewScientist

The population paradox















| COMMENT 19 November 2008

By Debora Mackenzie

happen in China). Nearly two-thirds of couples in poor countries now use birth control, and not because some patriarchal westerner told them to. In the 1970s, the government of Bangladesh offered people in the Matlab region low-cost contraceptive supplies and advice. Birth rates promptly fell well below neighbouring regions. So Bangladesh extended the service nationally and its birth rate plummeted from six children per woman to three. Given the choice, people want fewer children.



Zázrak? v Bangladéšii (i jinde)...



<u>Dětská úmrtnost - řešení růstu populace?</u>

- dříve vysoká novorozenecká úmrtnost, nemoci a války

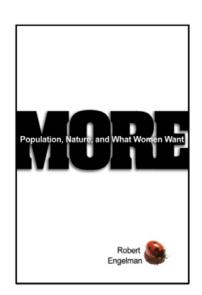
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<u>Direktivní politika jednoho dítěte (Čína)</u>

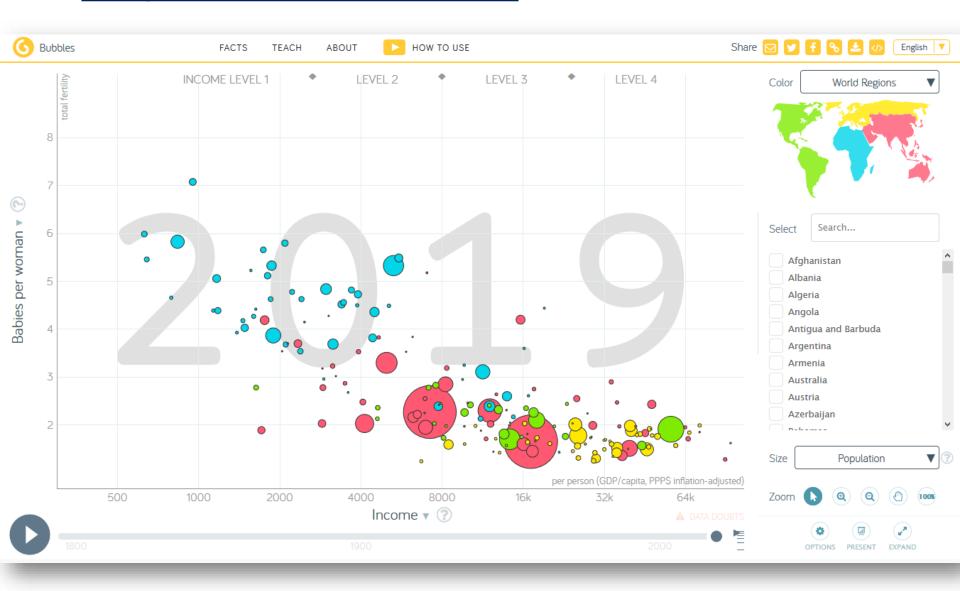
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- vážné etické a socioekonomické důsledky!
- nepřipravenost společnosti a venkovské ekonomiky
- bylo to potřeba?

<u>Dobrovolná politika jednoho dítěte?</u>

- země bohatého severu



Příjem x porodnost



Dětská úmrtnost - řešení růstu populace?

- dříve vysoká novorozenecká úmrtnost, nemoci a války

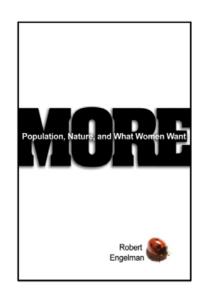
Women don't want **more** children, but **more for** their children (R. Engelman)

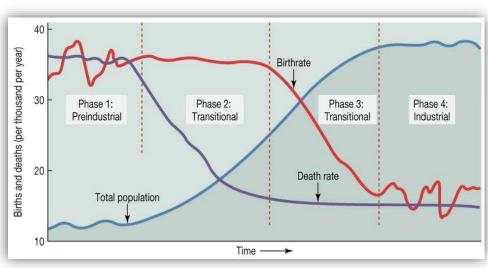
<u>Direktivní politika jednoho dítěte (Čína)</u>

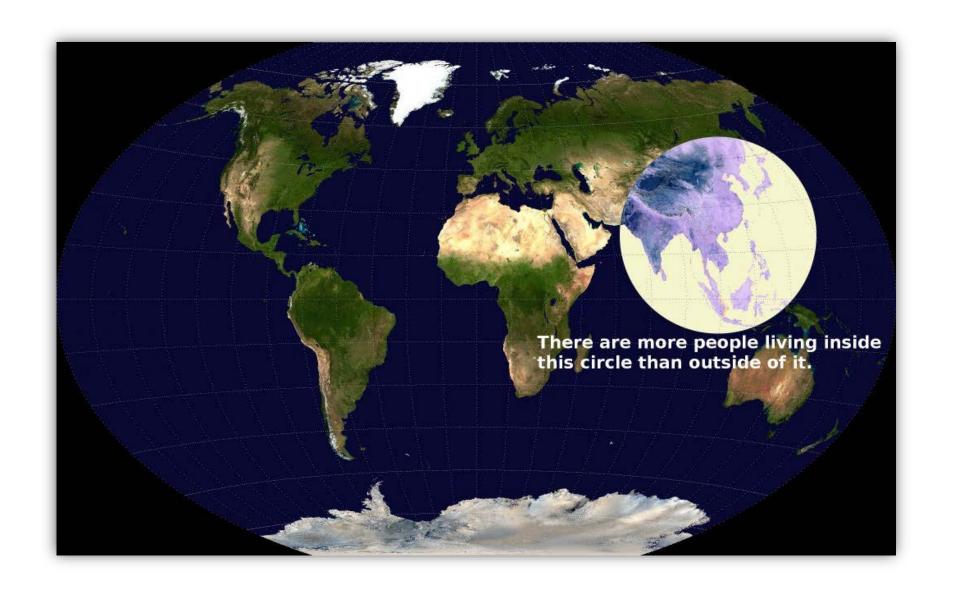
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- vážné etické a socioekonomické důsledky!
- nepřipravenost společnosti a venkovské ekonomiky
- bylo to potřeba?

Dobrovolná politika jednoho dítěte?

- země bohatého severu
- politika ekonomického růstu přístup
 demografické tranzice komplikuje







THE MILLENNIUM DEVELOPMENT GOALS (MDGs) ARE THE MOST SUCCESSFUL GLOBAL ANTI-POVERTY PUSH IN HISTORY.

AS WE APPROACH THE 2015 TARGET DATE OF THE MDGs, LET'S RALLY OUR WORLD TO STEP UP #MDGMOMENTUM

MDG5 IMPROVE MATERNAL HEALTH

MATERNAL ORTALITY FELLEY 47% **SINCE 1990**

IN DEVELOPING REGIONS RECEIVE

RECOMMENDED **DURING PREGNANCY.**

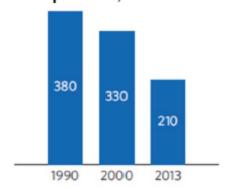
HARE #MDGMOMENTUM WITH YOUR COMMUNITY!



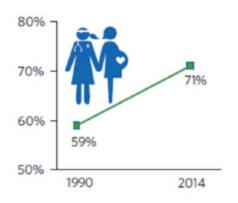
Steady progress was made to improve maternal health

Goal: Improve maternal health

Global maternal mortality ratio (deaths per 100,000 live births)



Global births attended by skilled health personnel



Since 1990, the maternal mortality ratio has declined by 45 per cent worldwide, and most of the reduction has occurred since 2000.

More than 71 per cent of births were assisted by skilled health personnel globally in 2014, an increase from 59 per cent in 1990.

Skutečný dárek.cz





Dárky

Kde dárky pomáhají

Jak to funguje

Pomáhejte pravidelně

Kamenné obchody

Kontakt



BEZPEČNÝ POROD

Pomáhejte s Člověkem v tísni. Tento dárek má hodnotu zdravotnického materiálu, který umožní bezpečný porod pro jednu ženu v chudých oblastech Kambodže.

Nákupem tohoto darovacího certifikátu přispějete na program pomoci ZDRAVÍ v rámci sbírky Skutečná pomoc.

Darovat

Ks

800 Kč

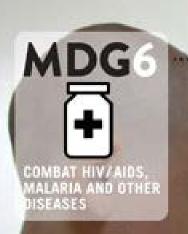
Jak vypadá certifikát?

👍 To se mi líbí 15 🛮 Sdílet



THE MILLENNIUM DEVELOPMENT GOALS (MDGs) ARE THE MOST SUCCESSFUL GLOBAL ANTI-POVERTY PUSH IN HISTORY.

AS WE APPROACH THE 2015 JARGET DATE OF THE MDGs, LET'S RALLY OUR WORLD TO STEP UP #MDGMOMENTUM



MILLION PEOPLE WERE ECEIVING FESAVING FOR HIV IN 2011

1.1 MILLION MALARIA DEATHS WERE PREVENTED IN THE SPAN OF 10 YEARS



ACCESS TO ANTIRETROVIRAL THERAPY FOR HI IN 2011





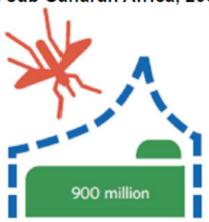
7



Malaria and TB incidence have halted and reversed

Goal: Combat HIV/AIDS, malaria and other diseases

Number of insecticide treated mosquito nets delivered in sub-Saharan Africa, 2004–2014



Over 6.2 million malaria deaths have been averted between 2000 and 2015, primarily of children under five years of age in sub-Saharan Africa.

More than 900 million insecticidetreated mosquito nets were delivered to malaria-endemic countries in sub-Saharan Africa between 2004 and 2014.

Between 2000 and 2013, tuberculosis prevention, diagnosis and treatment interventions saved an estimated 37 million lives.



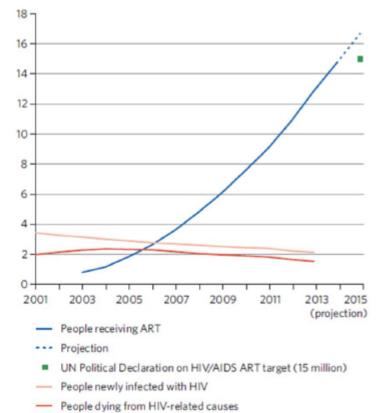
HIV infections fell in many regions of the world

Goal: Combat HIV/AIDS, malaria and other diseases

New HIV infections fell by approximately 40 per cent between 2000 and 2013, from an estimated 3.5 million cases to 2.1 million.

By June 2014, 13.6 million people living with HIV were receiving antiretroviral therapy (ART) globally, an immense increase from just 800,000 in 2003. ART averted 7.6 million deaths from AIDS between 1995 and 2013.

Number of people receiving antiretroviral therapy, 2003-2015, number of deaths from AIDS-related causes and number of people newly infected with HIV, 2001-2013 (millions)



THE MILLENNIUM DEVELOPMENT GOALS (MDGs) ARE THE MOST SUCCESSFUL GLOBAL ANTI-POVERTY PUSH IN HISTORY.

AS WE APPROACH THE 2015 TARGET DATE OF THE MDG

LET'S RALLY OUR WORLD TO STEP UP MDGMOMENTU



MDG7 2.1 BILLION

····· GAINED ACCESS TO AN DRINKING



2.5 BILLION DO NOT HAVE BASIC

SINCE 1990

ENNIUMGOALS

SUCH AS TOILETS OR LATRINES

MDGMOMENTUM

WITH YOUR COMMUNITY!



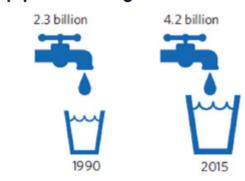
Safe drinking water and ozone protection targets met

Goal: Ensure environmental sustainability

In 2015, 91% of the global population is using an improved drinking water source, up from 76% in 1990– the target was met 5 years ahead of the 2015 deadline.

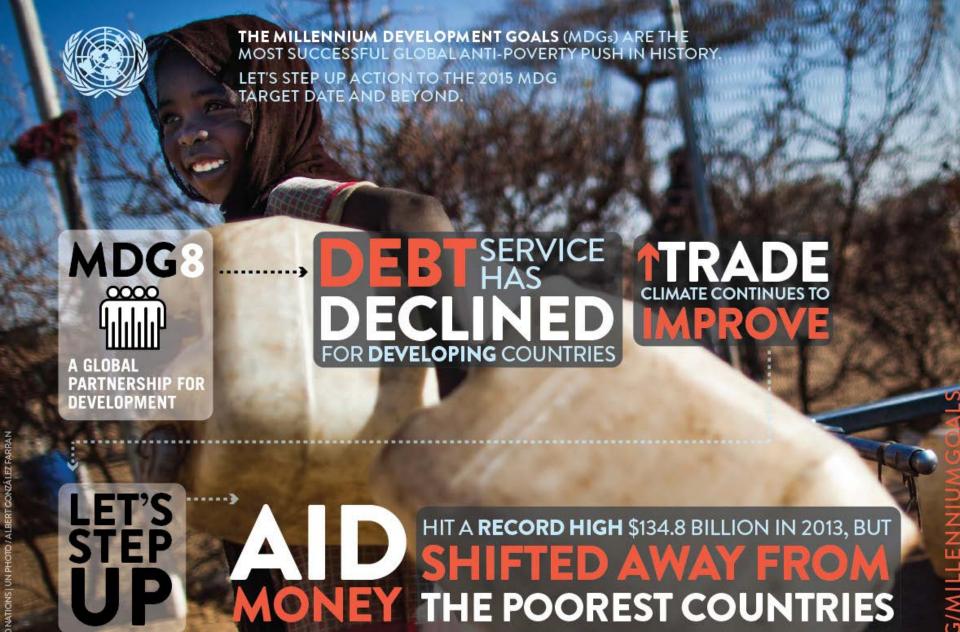
Of the 2.6 billion people who have gained access to improved drinking water since 1990, 1.9 billion gained access to piped drinking water on premises.

Ozone-depleting substances have been virtually eliminated since 1990, and the ozone layer is expected to recover by the middle of this century. 1.9 billion people have gained access to piped drinking water since 1990



98% of ozone-depleting substances eliminated since 1990



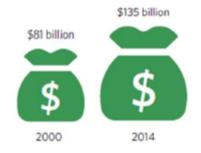




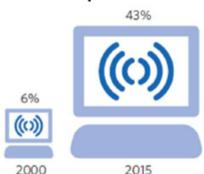
Global improvements in official development assistance, mobile-cellular subscriptions and internet penetration

Goal: Develop a global partnership for development

Official development assistance (ODA)



Internet penetration



ODA increased by 66% in real terms between 2000 and 2014, reaching \$135.2 billion.

The number of mobile-cellular subscriptions has grown almost tenfold in the last 15 years: from 738 million to over 7 billion (2000-2015).

Internet penetration has grown from just over 6 per cent of the world's population in 2000 to 43 per cent in 2015-- translating to 3.2 billion people linked to a global network.

Leaving no one behind

Bilance plnění Rozvojových cílů tisíciletí

Počet lidí žijících s méně než 1,25 dolaru na den klesi z 1,9 miliardy v roce 1990 na 836 milionů. Těsně se nepodařilo snížit na polovinu i počet hladovějících.

Zhruba

2,6 miliardy lidí získaly
ve srovnání s rokem
1990 přístup k lepší
pitné vodě; 663 milionů
lidí však stále snadný
přístup k pitné vodě
nemá.

Splněno

Dvě třetiny rozvojových zemí dosáhly rovnosti mezi dlvkami a chlapci v přístupu k základnímu vzdělání.

Splněno částečně

V letech
2000–2014 stoupl
objem rozvojové
pomoci o 66 procent.
Cilem bylo vytvořit
partnerství pro globální
rozvoj.

umrti na malárii díky přistupu k lékům, moskytiérám a časmějšímu testování při přiznacích klesi ve srovnání s rokem 2000 c 60 procent. Epidemii se tedy podaňlo zastavit a zvrátit. To se však nezdařilo s epidemii AIDS.

Nesplněno

Dětská úmrtnost
v posledních 25 letech
klesla o vice než
polovinu – z 90 na 43
úmrtí/tisíc porodů. Cíl
spočíval ve snížení
o dvě třetiny.

Počet dětí chodících do základních škol se zvýšil z 83 procent v roce 2000 na 91 procent. Cíl byl všechny děti světa v ZŠ.

Úmrtnost žen při porodech klesla o necelou polovinu, cílem bylo snížit ji o dvě třetiny.



Climate change and environmental degradation undermine progress achieved

Global emissions of carbon dioxide have increased by over 50 per cent since 1990.

Water scarcity affects 40 per cent of people in the world and is projected to increase.

Overexploitation of marine fish stocks led to declines in the percentage of stocks within safe biological limits, down from 90 per cent in 1974 to 71 per cent in 2011.



Photo: © UN Photo/Ky Chung

Climate change and environmental degradation undermine progress achieved

Jak může zvyšující se degradace ŽP (např. CC) vést ke snížení lidského blahobytu?

Top

Climate change: The great civilisation destroyer?

War and unrest, and the collapse of many mighty empires, often followed changes in local climes. Is this more than a coincidence?



Climate change: The great civilisation destroyer?

War and unrest, and the collapse of many mighty empires, often followed changes in local climes. Is this more than a coincidence?



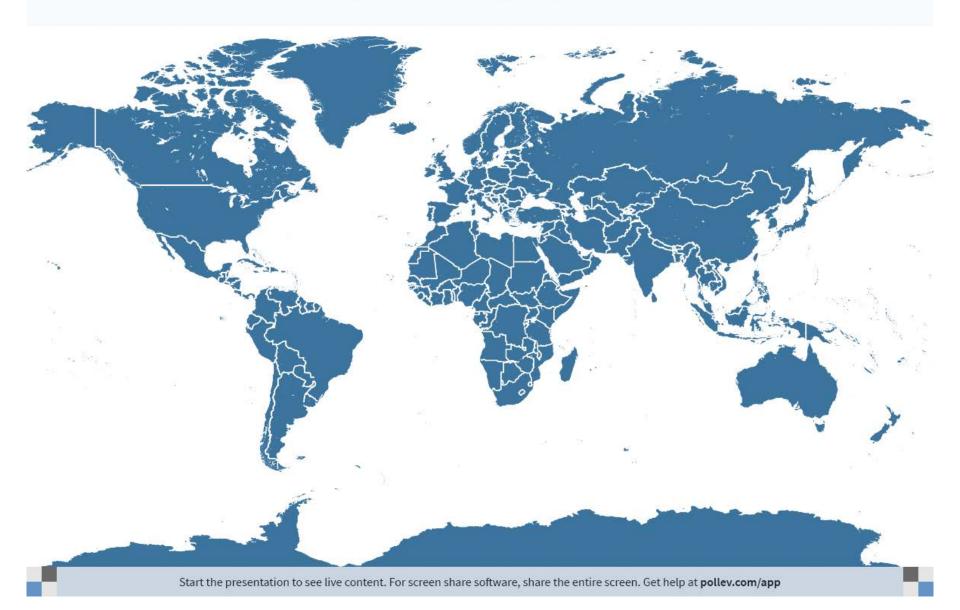


Na Blízkém východě trvá nejhorší sucho za 900 let. Vědci se bojí změn v celém Středomoří

bar 4. března 2016 • 13:50



Kde je Blízký východ?



"Na začátku arabského jara v Egyptě lidé vyšli do ulic mimo jiné kvůli nedostatku chleba. Ten vznikl, když Číňané vykoupili všechnu pšenici. A Číňané vykoupili pšenici, neboť Čína za sebou měla neobvykle suché léto roku 2010. Stejně tak v Sýrii ve městech protestovali farmáři, kteří sem emigrovali ze severozápadu země. Emigrovali, protože je globální oteplování připravilo o obživu.



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HN: A v Turecku?

V Turecku nynější politická krize vznikla z toho, jak naložit s imigranty a jak se postavit ke kolapsu Sýrie. Obojí souvisí s proměnami životního prostředí."

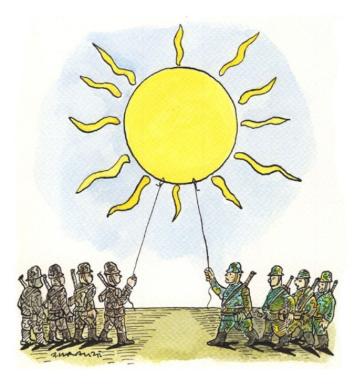




COMMENT 2 December 2015

Climate as a cause of Syria's conflict? It's far from settled

World leaders and commentators including Prince Charles talk up climate change as a factor in Syria's war, but its role is debatable, finds **Fred Pearce**

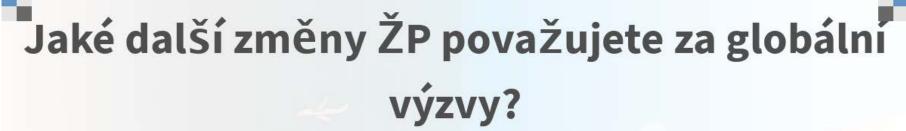


IT HAS been repeatedly claimed that refugees fleeing Syria are victims of climate change as well as victims of a vicious civil, and now international, conflagration.

Scientific American declared that global warming "hastened" the war, and US president Barack Obama said "drought and crop failures and high food prices helped fuel the early unrest". The latest intervention comes from UK royal Prince Charles, who echoed those views in a TV interview broadcast last week.









<u>2015 – 2030</u>

Cíle udržitelného rozvoje

Sustainable development goals (SDG)

- Pokračování úspěšného projektu 8MDG
- Stanoveno 17 cílů se 169 podcíli !!!

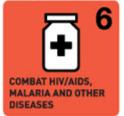




















































SUSTAINABLE GEALS



































<u>2015 - 2030</u>

Sustainable development goals (SDG)

- Pokračování úspěšného projektu 8MDG
- Stanoveno 17 cílů se 169 podcíli !!!

"mnoho priorit = žádná priorita"

Jak prioritizovat "nejlepší" cíle?

A New Way to Set Goals for Fighting World Poverty

Experts have long argued over the best way to reduce poverty and disease around the globe. A group of leading economists has been gathering periodically over the past several years to assess the wisest ways to spend limited funds to promote global development. Their conclusions and ranking methods offer both a new perspective and a challenge to some current orthodoxies about foreign aid. In their most recent assessment, in June, the group—convened by the Copenhagen Consensus Center—offered a preliminary assessment of the targets proposed by the UN's Open Working Group on Sustained Development Goals.

The Copenhagen Consensus Center group compared the cost of each goal to its likely benefits on a scale from phenomenal to poor or uncertain. Their question: For every dollar spent, how much good is done for the world's poor? Here are some of their rankings. (Related article: Five Ways to Outgrow World Poverty)

Ratings key:

PHENOMENAL - Robust evidence for benefits more than 15 times higher than costs

GOOD - Robust evidence of benefits between 5 to 15 times higher than costs

FAIR - Robust evidence of benefits between 1 to 5 times higher than costs

POOR - The benefits are smaller than costs or target poorly specified (e.g. internally inconsistent, incentivizes wrong activity)

UNCERTAIN – There is not enough knowledge of the policy options that could reach the target OR the costs and benefits of the actions to reach the target are not well known *Note: We excluded any goals that had ratings across several categories or any that the group didn't assess.* See the <u>full report here.</u>

Target	Proposed Goal	Rating
By 2020, provide legal identity for all, including birth registrations	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Good
orge unity in diversity through democratic practices and mechanisms at the local, national and international levels	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Poor
romote freedom of media, association and speech	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Poor
by 2030, reduce levels of violence and related death rate by x%	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Uncertain
by 2030, end abuse, exploitation and violence against children	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Uncertain
by 2030, increase inclusive, participatory and representative decision-making at all levels, taking into onsideration the interests of present and future generations	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Uncertain
by 2020, provide information and education on a culture of non-violence	Achieve peaceful and inclusive societies, rule of law, effective and capable institutions	Uncertain
by 2020, effectively regulate harvesting and end overfishing to restore by 2030 fish stocks to ecologically safe levels that can produce maximum sustainable yield	Attain conservation and sustainable use of marine resources, oceans and seas	Phenome
By 2020, eliminate subsidies which contribute to overcapacity and overfishing, and refrain from introducing new such subsidies, taking into account the need of developing countries, notably least developed countries and SIDS	Attain conservation and sustainable use of marine resources, oceans and seas	Phenome

Smarter Global Targets to 2030

PEOPLE

- LOWER CHRONIC CHILD MALNUTRITION BY 40%
- HALVE MALARIA INFECTION
- REDUCE TUBERCULOSIS DEATHS BY 90%
- AVOID 1.1M HIV INFECTIONS THROUGH CIRCUMCISION
- CUT EARLY DEATH FROM CHRONIC DISEASE BY 1/3

- REDUCE NEWBORN MORTALITY BY 70%
- INCREASE IMMUNIZATION TO REDUCE CHILD DEATHS BY 25%
- MAKE FAMILY PLANNING AVAILABLE TO EVERYONE
- ELIMINATE VIOLENCE AGAINST WOMEN AND GIRLS

PLANET

- PHASE OUT FOSSIL FUEL SUBSIDIES
- HALVE CORAL REEF LOSS

- TAX POLLUTION DAMAGE FROM ENERGY
- CUT INDOOR AIR POLLUTION BY 20%

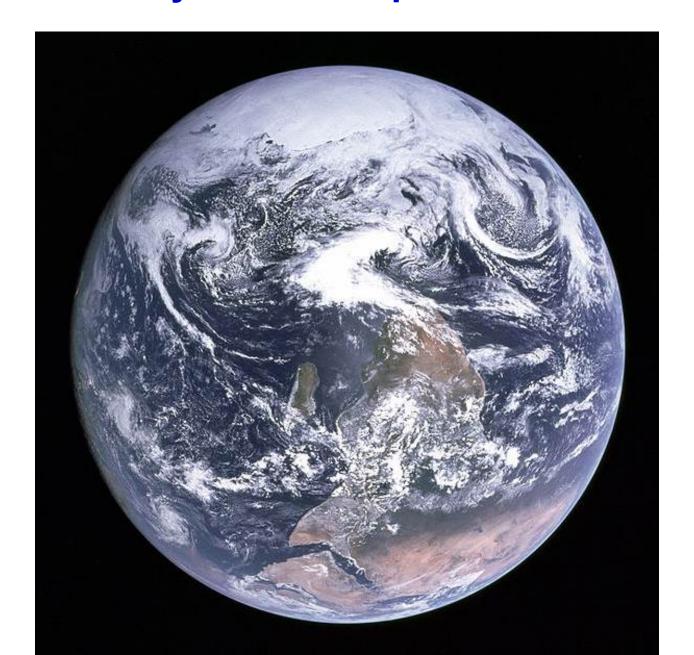
PROSPERITY

- REDUCE TRADE RESTRICTIONS (FULL DOHA)
- IMPROVE GENDER EQUALITY IN OWNERSHIP, BUSINESS AND POLITICS
- BOOST AGRICULTURAL YIELD GROWTH BY 40%

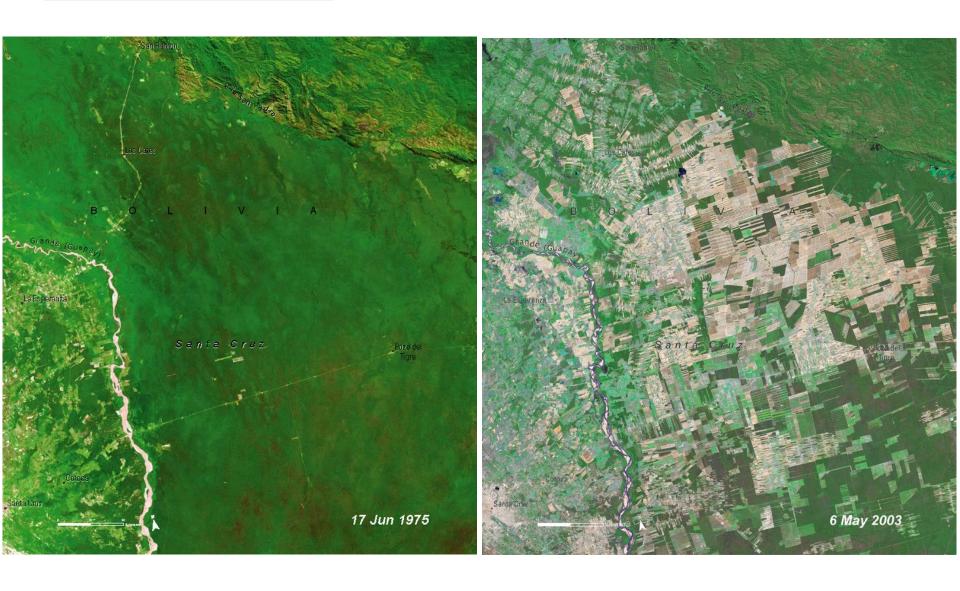
- INCREASE GIRLS' EDUCATION BY TWO YEARS
- ACHIEVE UNIVERSAL PRIMARY EDUCATION IN SUB-SAHARAN AFRICA
- TRIPLE PRESCHOOL IN SUB-SAHARAN AFRICA



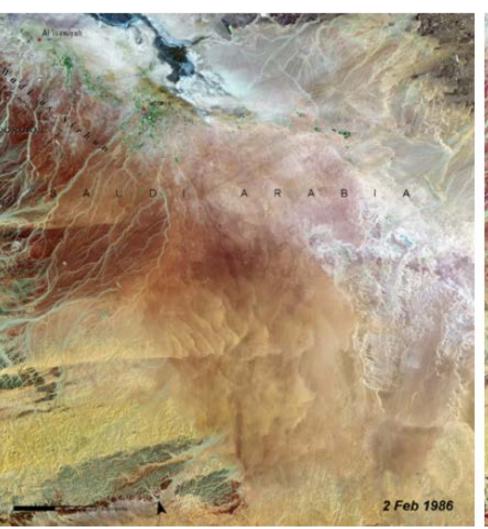
??? 1.7 m velký člověk vs. plocha 128·10¹² m² ???

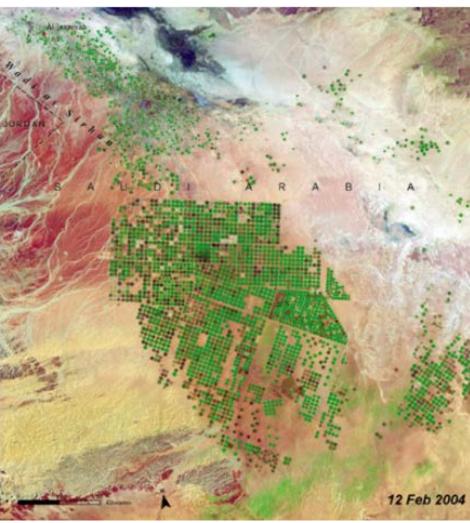


Santa Cruz, Bolívia

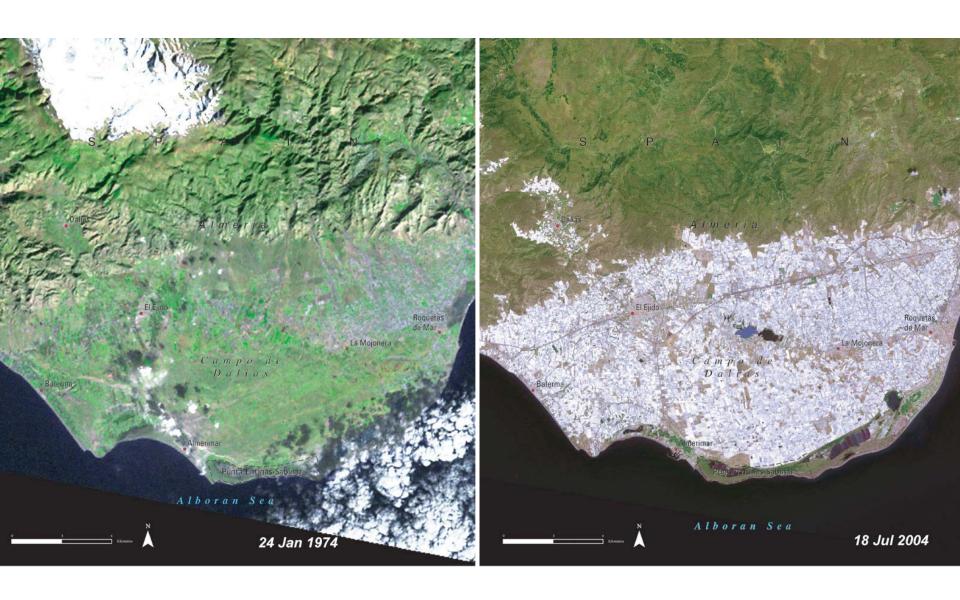


Al'Isawiyah, Saudi Arabia

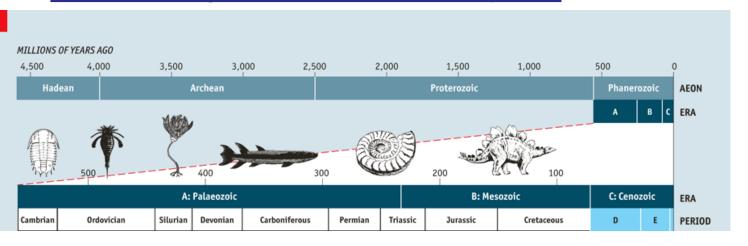


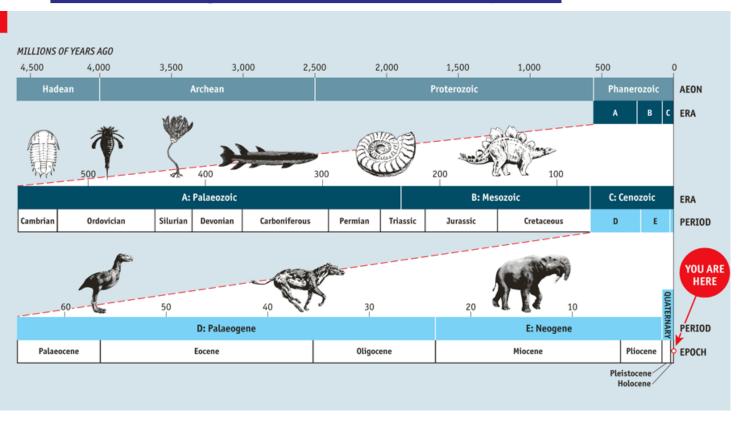


Almeria, Spain

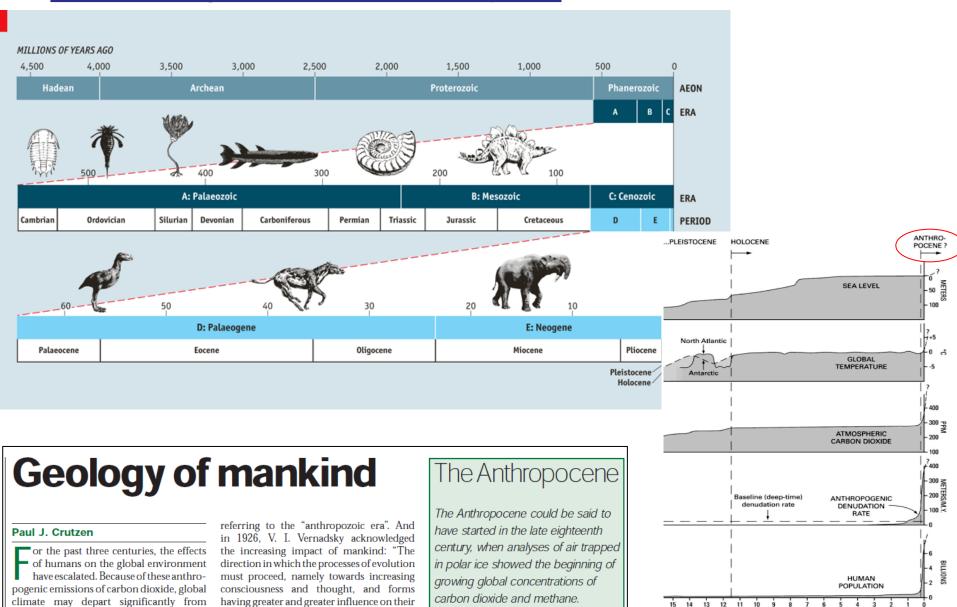






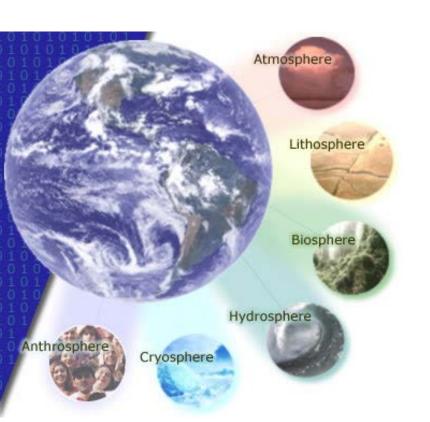


Jak se nazývá geologické období, ve kterém teď žijeme?



Antropocén

- geologický termín zpopularizovaný P. Crutzenem
- od průmyslové revoluce / WW2 (½ 18. stol. či ½ 20. st.?)
- období, kdy člověk začal představovat dominantní sílu měnící stav "Zemského systému"



Zemský systém – integrované biofyzikálně-socio-ekonomické procesy a interakce mezi hydro-, kryo-, bio-,geo- a antroposférou v prostorovém (od lokálních po globální) a časovém měřítku, jež určují environmentální stav planety v rámci její pozice ve vesmíru.

Co může být považováno za "otisk" aktuálně probíhajícího Antropocénu? Co uvidí budoucí archeolog až za 1,000,000 let bude dělat vykopávky dneška?

Top

My New Scientist

Home | Opinion | Environment | Tech | Opinion

Is Earth in a new geological phase thanks to us?

-) 10 November 2014 by Jan Zalasiewicz
-) Magazine issue 2994. Subscribe and save
-) For similar stories, visit the Comment and Analysis Topic Guide

It may be time for science to recognise Earth's new era – one shaped by humans. So argues a geologist involved in defining new phases in geological time

WHAT is the legacy that short-lived humanity will leave to an almost eternal Earth? The casual observer might point to tourist sights such as the once mighty city of Angkor, now lying ruined amid the Cambodian jungle, or what survives of the great monuments of ancient Egypt.

They are wonderful, of course, but there is another way to address that question. A little-known working group, part of the International Commission on Stratigraphy, recently met to consider if the human imprint on Earth is now so great, and likely to be detectable for so long, that it deserves to be regarded as a geological epoch in its own right. That would be our real legacy.

Such discussion is not new. George Perkins Marsh, North America's first conservationist, wrote of humans changing the face of the Earth. In 1873 the Italian geologist Antonio Stoppani coined the term Anthropozoic —the era in which humans change the course of geological history. Most geologists declared the idea nonsense. The constructions of civilisation may look impressive, they said, but must surely be trivial when set against the collisions of continents and the growth and disappearance of the oceans. When humans disappear, the world will resume its course, and few of our monuments will be left.

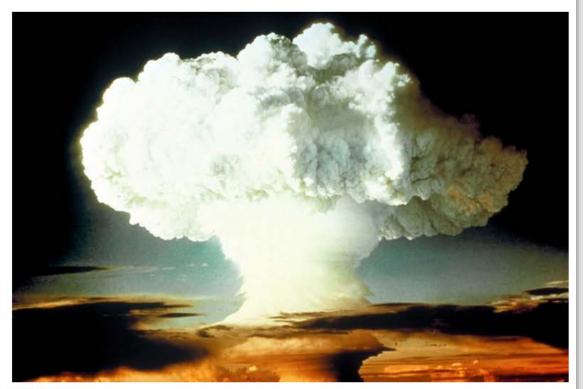
But over the past few decades it has become clear that human activities can have geologically far-reaching effects. Science writer Andrew Revkin suggested we were living in what he called the Anthrocene; John Curnutt of the US Geological Survey, awed at the transplanting of species across the globe, proposed the Homogenocene; marine biologist Daniel Pauly saw the oceans' future as one of slime and jellyfish as a result of overfishing and pollution, and invented the Myxocene.

But it was one of the world's most respected scientists, the Nobelprizewinning atmospheric chemist Paul Crutzen, who proved most influential. He argued that the Holocene, the geological epoch of post-glacial stability in which civilisation arose, had ended and been replaced by the Anthropocene, an epoch shaped by humans.

The idea took off. The term was used as if it were a formal epoch. It isn't - but

DAILY NEWS 7 January 2016

Marks of the Anthropocene: 7 signs we have made our own epoch



By Sam Wong

Even if humanity is long gone in tens of millions of years, there will still be a clear sign of us and the way we lived left preserved in our planet's geological record.

There is now overwhelming evidence that our impact on Earth constitutes its own distinct geological epoch, dating from the middle of the 20th century. Here are the seven signs that will clearly identify the Anthropocene epoch for future geologists.

1. Nuclear weapons

Our war efforts have left their mark on geology. When the first nuclear weapon was detonated on 16 July 1945 in New Mexico, it deposited radionuclides – atoms with excess nuclear energy – across a wide area. Since 1952, more explosive thermonuclear weapons have been tested, leaving a global signature of isotopes such as carbon-14 and plutonium-239.

Proč nás to má zajímat?

a Low risk of transition
High resilience

Description
Low resilience

Time

Not 461/24 September 2009

FEATURE

A safe operating space for humanity

Identifying and quantifying planetary boundaries that must not be transgressed could help prevent human activities from causing unacceptable environmental change, argue Johan Rockström and colleagues.

lthough Earth has undergone many periods of significant environmental change, the planet's environment has been unusually stable for the past 10,000 years 1-3. This period of stability - known to geologists as the Holocene - has seen human civilizations arise, develop and thrive. Such stability may now be under threat. Since the Industrial Revolution, a new era has arisen, the Anthropocene⁴, in which human actions have become the main driver of global environmental change⁵. This could see human activities push the Earth system outside the stable environmental state of the Holocene, with consequences that are detrimental or even catastrophic for large parts of the world.

During the Holocene, environmental change occurred naturally and Barth's regulatory capacity maintained the conditions that enabled human development. Regular temperatures, freshwater availability and biogeochemical flows all stayed within a relatively narrow range. Now, largely because of a rapidly growing reliance on fossil fuels and



SUMMARY

- New approach proposed for defining preconditions for human development
- Crossing certain biophysical thresholds could have disastrous consequences for humanity
- Three of nine interlinked planetary boundaries have already been overstepped

industrialized forms of agriculture, human activities have reached a level that could damage the systems that keep Earth in the desirable Holocene state. The result could be irreversible and, in some cases, abrupt environmental change, leading to a state less conducive to human development. Without pressure from humans, the Holocene is expected to continue for at least several thousands of years.

Planetary boundaries

To meet the challenge of maintaining the Holocene state, we propose a framework based on 'planetary boundaries'. These boundaries define the safe operating space for humanity with respect to the Earth system and are associated with the planet's biophysical subsystems or processes. Although Earth's complex systems sometimes respond smoothly to changing pressures, it seems that this will prove to be the exception rather than the rule. Many subsystems of Earth react in a nonlinear, often abrupt, way, and are particularly sensitive around threshold levels of certain key variables. If these thresholds are crossed, then important subsystems, such as a monsoon system, could shift into a new state, often with deleterious or potentially even disastrous consequences for humans. **J.

Most of these thresholds can be defined by a critical value for one or more control variables, such as carbon dioxide concentration. Not all processes or subsystems on Earth have well-defined thresholds, although human actions that undermine the resilience of such processes or subsystems — for example, land and water degradation — can increase the risk that thresholds will also be crossed in other processes, such as the climate system.

We have tried to identify the Earth-system processes and associated thresholds which, if crossed, could generate unacceptable environmental change. We have found nine such processes for which we believe it is necessary to define planetary boundaries: climate change; rate of biodiversity loss (terrestrial and marine); interference with the nitrogen and phosphorus cycles; stratospheric ozone depletion; ocean acidification; global freshwater use; change in land use; chemical pollution; and atmospheric aerosol loading (see Fig. 1 and Table).

In general, planetary boundaries are values for control variables that are either at a 'safe' distance from thresholds — for processes with evidence of threshold behaviour — or at dangerous levels — for processes without

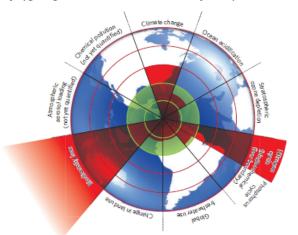


Figure 1 | Beyond the boundary. The inner green shading represents the proposed safe operating space for nine planetary systems. The red wedges represent an estimate of the current position for each variable. The boundaries in three systems (rate of biodiversity loss, climate change and human interference with the nitrogen cycle), have already been exceeded.

A safe operating space for humanity (Rockström et al., 2009)

1a) In which geological period, and when human civilization arise and thrive?

1b) Why the development of our civilization was possible in this period?

1c) What can jeopardize a continuity of our development in the future?

lthough Earth has undergone many periods of significant environmental change, the planet's environment has been unusually stable for the past 10,000 years¹⁻³. This period of stability — known to geologists as the Holocene — has seen human civilizations arise, develop and thrive. Such stability may now be under threat. Since the Industrial Revolution, a new era has arisen, the Anthropocene⁴, in which human actions have become the main driver of global environmental change⁵. This could see human activities push the Earth system outside the stable environmental state of the Holocene. with consequences that are detrimental or even catastrophic for large parts of the world.

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industrialized forms of agriculture, human activities have reached a level that could damage the systems that keep Earth in the desirable Holocene state. The result could be irreversible and, in some cases, abrupt environmental change, leading to a state less conducive to human development⁶. Without pressure from humans, the Holocene is expected to continue for at least several thousands of years⁷.

A safe operating space for humanity (Rockström et al., 2009)

2a) What are the "Planetary boundaries" about?

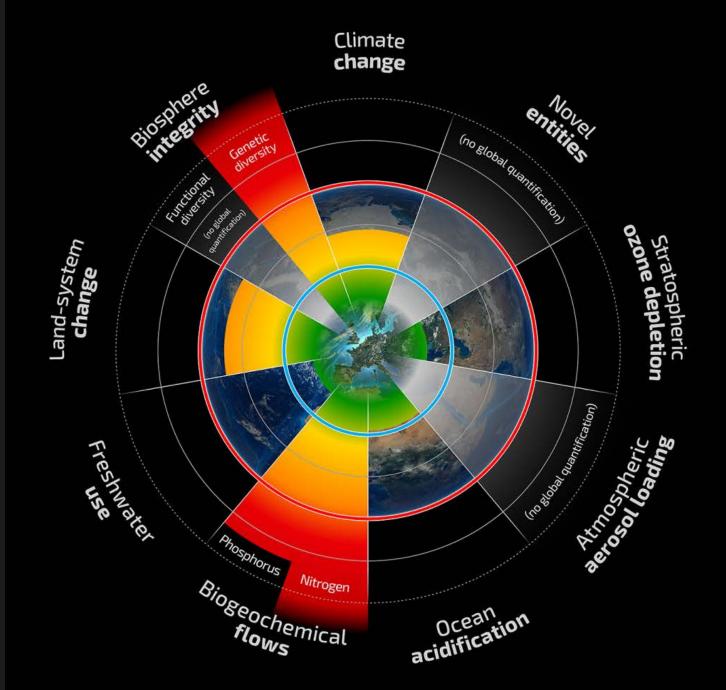
2b) Which Earth-system processes were identified (9)?

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Planetary Boundaries A safe operating space for humanity



Beyond zone of uncertainty (high risk) In zone of uncertainty (increasing risk)

Boundary not yet quantified

Below boundary (safe)

Parts of Amazon close to tipping point

-) 13:52 05 March 2009 by Catherine Brahic
-) For similar stories, visit the Endangered Species Topic Guide

The Mato Grosso, the most scarred region of the Amazon rainforest, is teetering on a deforestation "tipping point", and may soon be on a one-way route to becoming a dry and relatively barren savannah.

Mônica Carneiro Alves Senna and colleagues at the Federal University of Viçosa, Brazil, used computer models to simulate how the Amazon would recover from various amounts of deforestation. Their simulations ranged from a complete wipe-out of the entire forest to a situation where just one fifth of the forest would be removed.

Parts of Amazon close to tipping point

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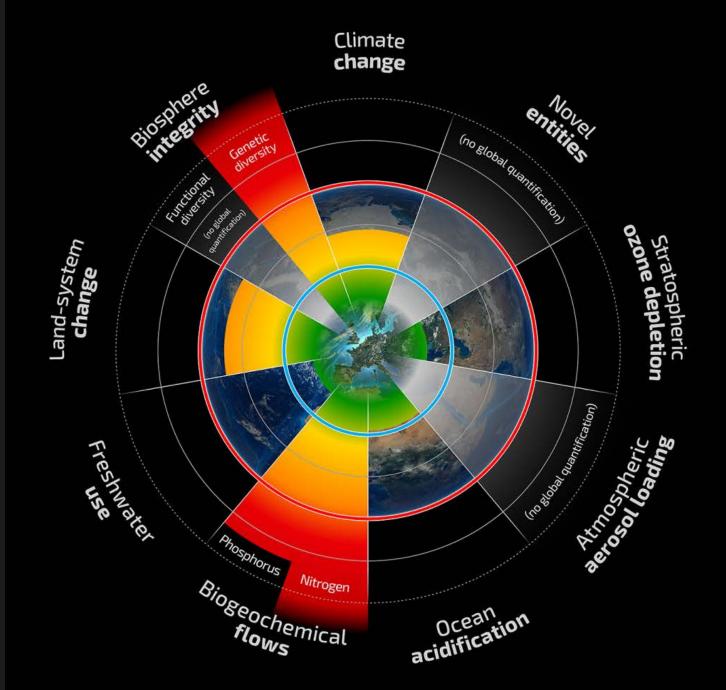
The boundary between Tanguro Farm and the Amazon rainforest in Mato Grosso, Brazil. COURTESY OF CHRIS LINDER

Amazon Watch: What Happens When the Forest Disappears?

At a remote site where the world's largest rainforest abuts land cleared for big agriculture, Brazilian and American scientists are keeping watch for a critical tipping point - the time when the Amazon ceases to be a carbon sink and turns into a source of carbon emissions.

BY FRED PEARCE - OCTOBER 17, 2019

Planetary Boundaries A safe operating space for humanity



Beyond zone of uncertainty (high risk) In zone of uncertainty (increasing risk)

Boundary not yet quantified

Below boundary (safe)