

Science Without Borders

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Paris-Sud University
Orsay, The European Union

OIST, Okinawa, July 23 2019

This is my second visit to OIST. Let me give you an **outsider view**

According to *Nature*, in 2019 OIST was among the top ten institutions world-wide punching above their weight in producing high-quality research



This is quite remarkable for such a young institute!

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10. Okinawa Institute of Science and Technology Graduate University

Fractional count: 29.08, Article count: 62, Nature Index rank: 361

The [Okinawa Institute of Science and Technology Graduate University](#) (OIST) is one of the most diverse institutions in [Japan](#), with [half of its faculty members](#) coming from other countries. The graduate-only university is among the leading institutions based on its normalized fractional count, with the physical sciences and life sciences being the largest contributors to OIST's overall output.

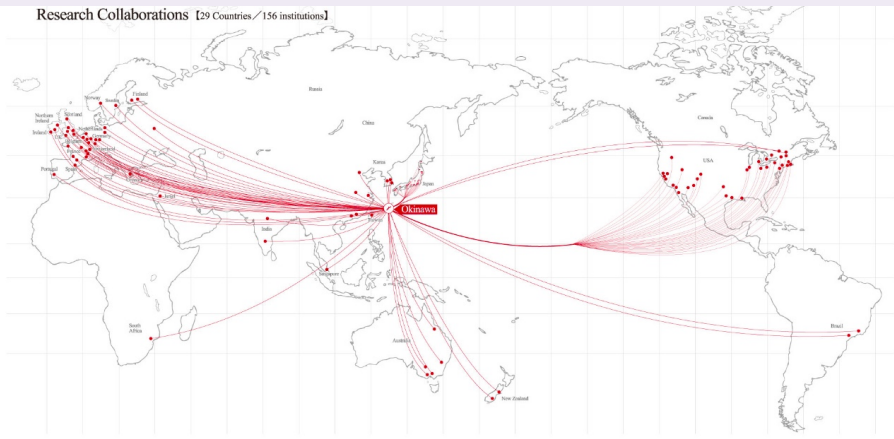
Unlike other Japanese institutions, almost all of OIST's courses and research activities are carried out in English. The university also has no departments, instead, researchers from different areas share facilities, equipment and resources. Among the facilities are a sample-preparation robot, a solar- and wind-powered house for research on sustainable living, and an advanced lab dedicated to oceanography.

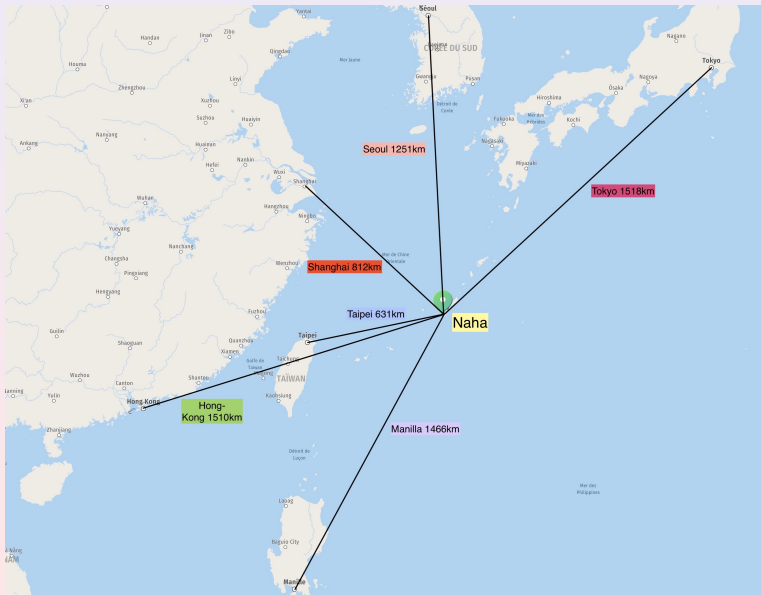
The students of OIST



Research Collaborations at OIST

Research Collaborations [29 Countries / 156 institutions]





The elephant in the room



China...

The elephant in the room



China...

The example of Iter



In southern France we are currently building the first fusion tokamak, ITER

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China, the European Union, India, Japan, Korea, Russia and the United States
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The iron curtain



Another interesting example: the Schrödinger institute in Vienna

The iron curtain



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So my wishes for a creative future at OIST:

- Even more of China
- and a bit of Africa...

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Nationalist heritage in Africa

Let me invite you all now to a far away and exotic place, Western Africa



Nationalist heritage in Africa



This is the map of Senegal and Gambia

Nationalist heritage in Africa



This is the map of Senegal and **Gambia**

What about nations as resource managers?

More than 80% of the electricity in Sénégal is generated by fossil-fuel



The Senegalese **coal** power plant in Sendou

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About 65 % of Germany's electricity comes from renewable sources



A solar power plant in Germany

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Solar Power by Potential

SOLAR RESOURCE MAP

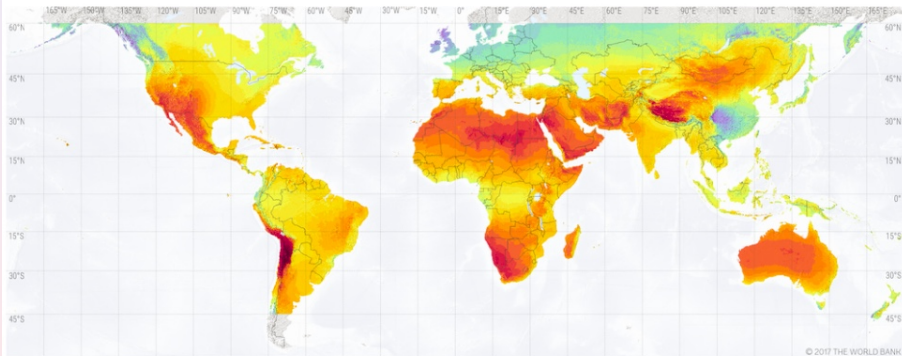
PHOTOVOLTAIC POWER POTENTIAL



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IFC International Finance Corporation

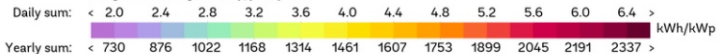


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Long-term average of daily/yearly sum



Chile, Africa, Middle East, Tibet...

Solar Power by Potential

SOLAR RESOURCE MAP

PHOTOVOLTAIC POWER POTENTIAL



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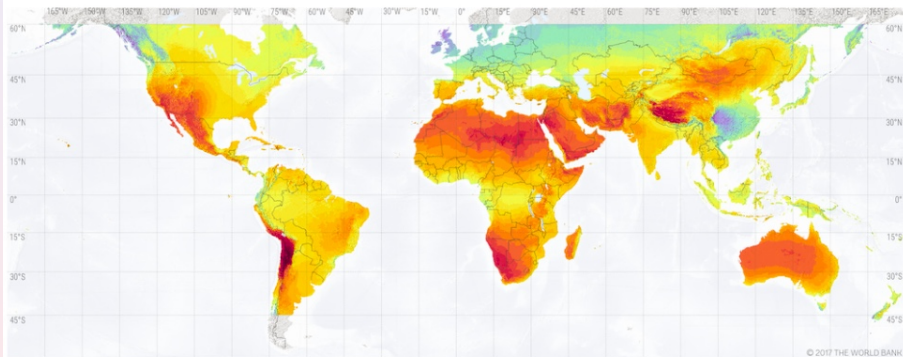
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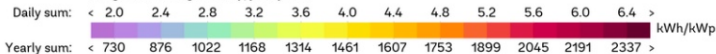


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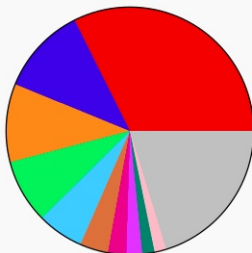
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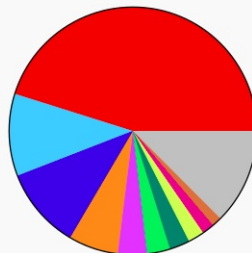
Solar Power by Countries

Top 10 countries in 2018 based on total PV installed capacity (MW) ^[7]



China:	176,100 MW (32.3%)
United States:	62,600 MW (11.5%)
Japan:	56,000 MW (10.3%)
Germany:	45,400 MW (8.3%)
India:	32,900 MW (6.0%)
Italy:	20,100 MW (3.7%)
United Kingdom:	13,000 MW (2.4%)
Australia:	11,300 MW (2.1%)
France:	9,000 MW (1.7%)
South Korea:	7,900 MW (1.4%)

Top 10 countries based on added PV capacity in 2018 (MW) ^[8]

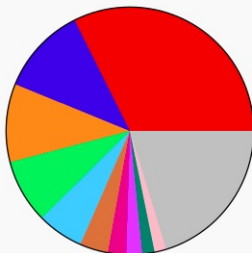


China:	45,000 MW (45.1%)
India:	10,800 MW (10.8%)
United States:	10,600 MW (10.6%)
Japan:	6,500 MW (6.5%)
Australia:	3,800 MW (3.8%)
Germany:	3,000 MW (3.0%)
Mexico:	2,700 MW (2.7%)
South Korea:	2,000 MW (2.0%)
Turkey:	1,600 MW (1.6%)
Netherlands:	1,300 MW (1.3%)

None is African!

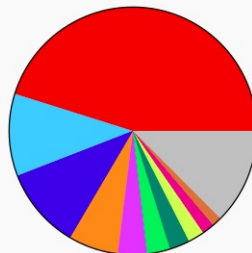
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- I became a fan of his African Institute for Mathematical Sciences
- It was innovative, panafrican, multilingual, gender sensitive... everything!
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The success of AIMS is another proof that science, like music, is universal.



Play

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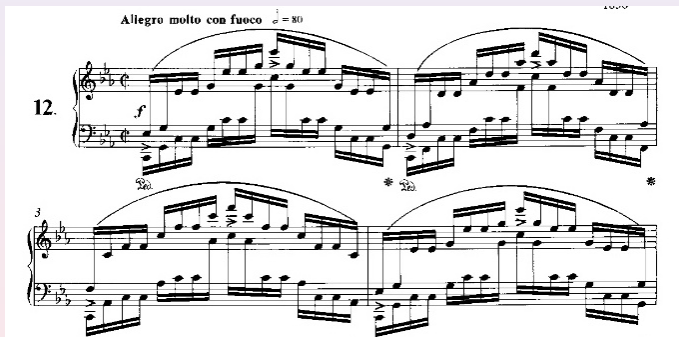
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Who should be the world trustees?

- Nations and religions remain the basic structures which federate people
- Multinational companies are powerful actors of globalization
- All such **non-universal structures** will always at some point favor their vested interests over those of mankind as a whole
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- Physicists know the critical importance of **scale**
- Mankind: 10 billion, 200 nations, 10-100 religions...
- Average size nation/religion: 50-100 million
- Largest empires, nations or religions \simeq 1 billion
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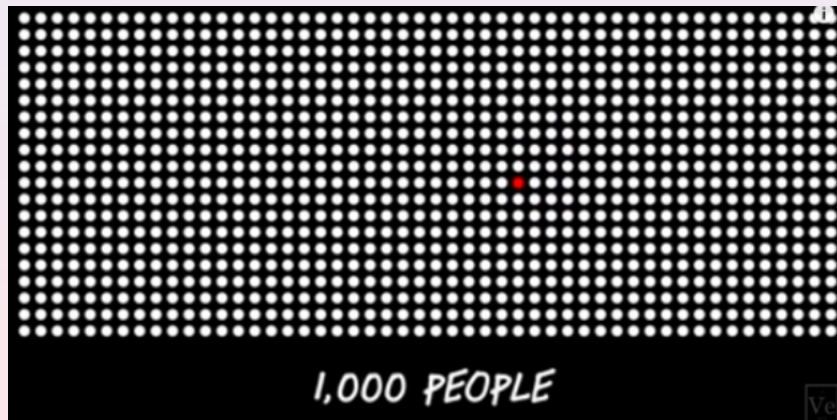
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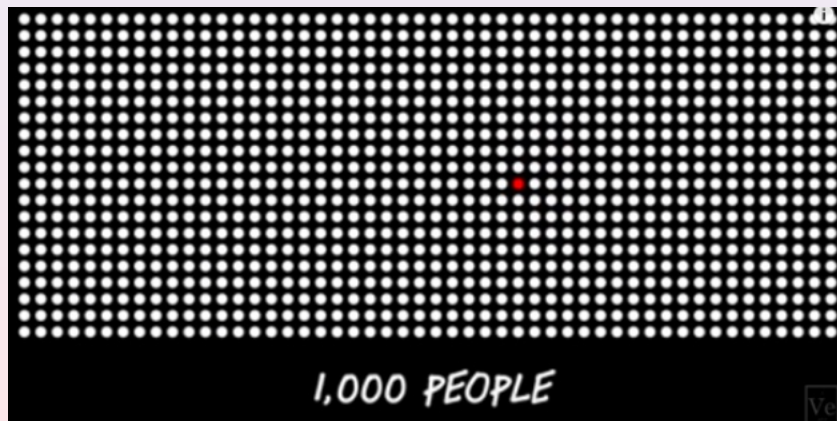
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There are about **10 million scientists in the world** (Unesco 2014 Report)
Still a small community but **growing fast**



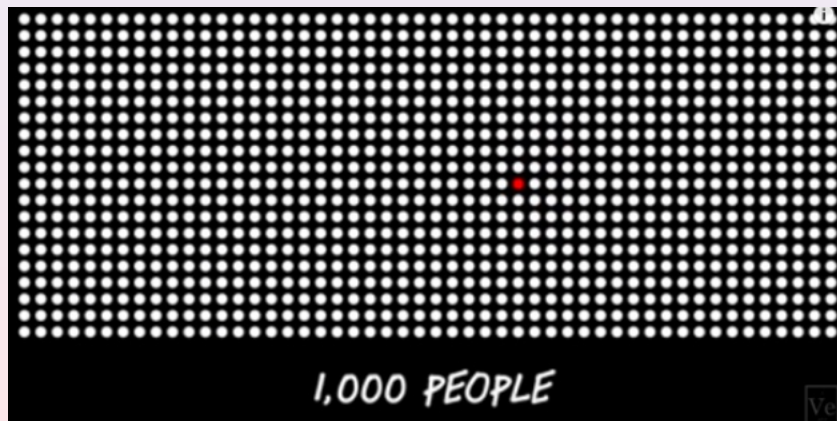
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Some basic findings of XXth century science

- There are no races. Mankind is a single species, **homo** (sapiens?)
- All living things on earth are parents
- Only earth is habitable in the solar system

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- Science also allowed nuclear weapons
- We cannot evade this world nor our responsibilities
- The main curse of our human family is its bitter division into quarreling nations and religions

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Nations can wage wars

I think nations are **mankind's worst invention**, because they plan and wage **wars**



During the last century these wars became **insane**

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During the last century these wars became **insane**

Nations have committed the worst historical crimes



“Civilized” nations organized crime and cruelty on a scale never seen before especially when supported by nationalist ideologies

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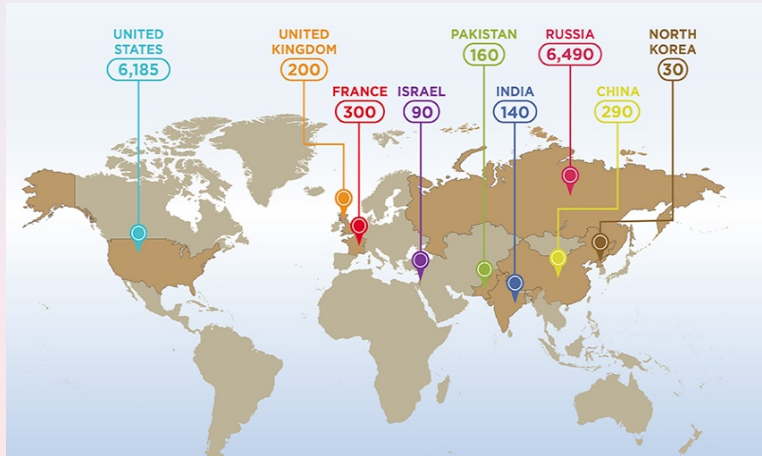
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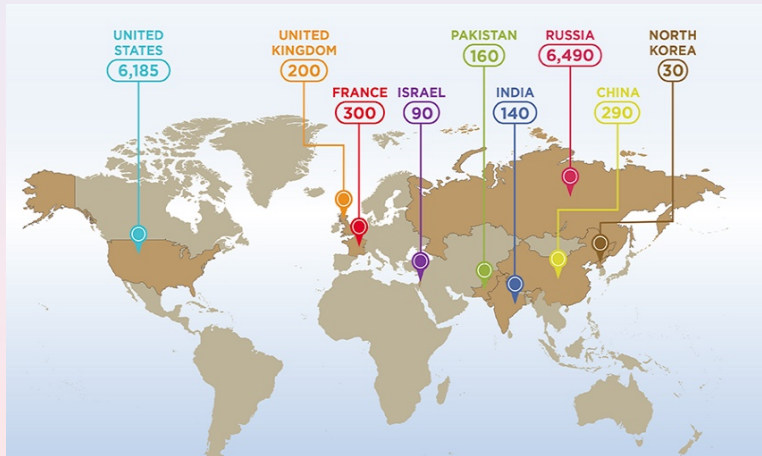
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Nations are armed to the teeth



$\simeq 10$ nations are armed with nuclear weapons

Nations are armed to the teeth



$\simeq 10$ nations are armed with nuclear weapons

Can we trust them for our survival?



You bet...



Scientists, most of the time, prefer their nation to the interests of mankind



Scientists, most of the time, prefer their nation to the interests of mankind

A modest reaction



The failure of nations was so epic that in the second half of the XXth century it led to some **modest attempts** to rein them through international institutions

Alas these institutions did not live up to the great hopes they generated

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May be regional steps first?



Regional/continental initiatives have been on average more successful

The best example is the European Union (2012 Peace Nobel prize)

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Today the European Union, the **impossible dream** of our grand-fathers in their trenches, so **painfully built** by our fathers, is under **relentless attack**



The Brexit fresco in Dover (UK)

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Nationalism has taken a **more sinister twist**, which I call **national-populism**



It is a **global pandemic**, spread from the **most powerful lectern** in the world

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The pandemy progresses



This year alone at least three new victims: Brazil, Italy and UK...

The pandemy progresses



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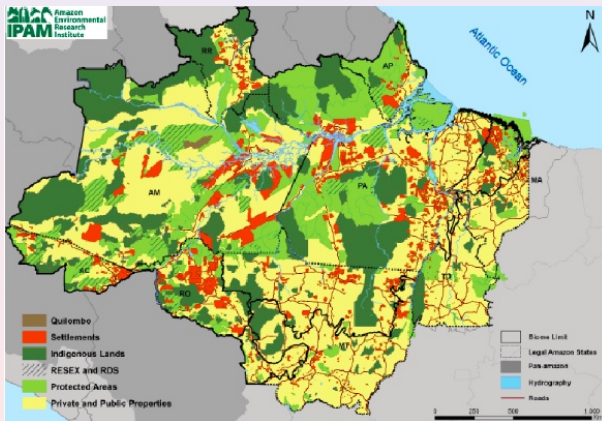


British MP Jo Cox, murdered by a Brexit fanatic on June 16 2016



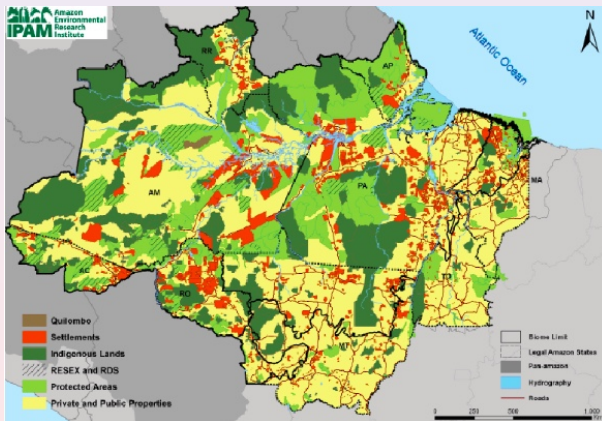
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National-populists have clearly identified science as **their enemy**



The Amazon deforestation map in Brazil

National-populists have clearly identified science as **their enemy**



The Amazon deforestation map in Brazil

The national-populist discourse



*The Amazon **belongs to Brazil** and European countries can mind their own business because they have already destroyed their own environment, said Brazil's far-right president Jair Bolsonaro, who also described his own government's **satellite data showing an alarming rise in deforestation as "lies"**. He also said he was "**fulfilling a mission from God**", defended his decision to name **his own son** as Brazil's ambassador to the US and described **Brexit as "the will of the people"**, although he admitted he had **never heard** of the UK's likely next prime minister, Boris Johnson. (The Guardian, July 19)*

The national-populist discourse



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No nation seems immune



In France our local brand, the “National front” is making regular electoral progress

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Japan resumes commercial whaling after 30 years

🕒 1 July 2019



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You should tell me...

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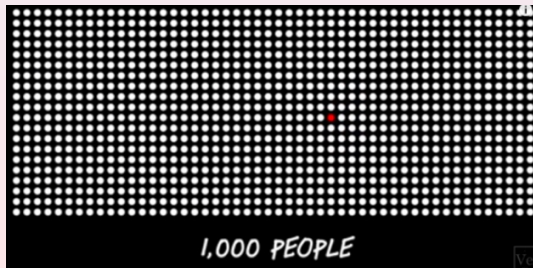
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You should tell me...

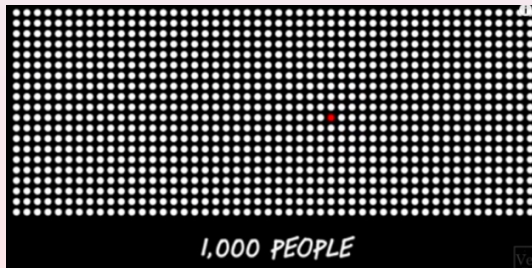
The defining fight of our time

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- Many of us already engage in local actions. We could **better coordinate our efforts at world-wide level**. See what Amnesty international has accomplished for human rights, or Greenpeace for ecology
- We need to engage this fight **with a compassionate heart which cannot come from science alone**



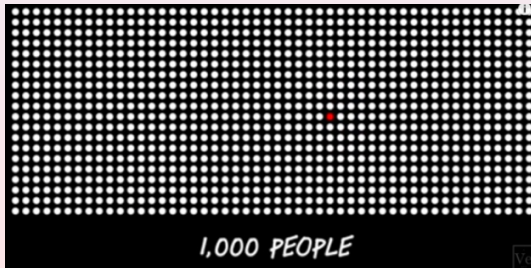
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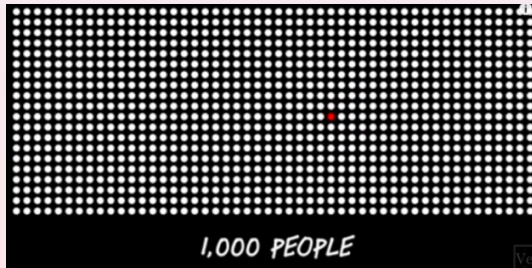
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“Leave No One Behind” is the motto of the US Marines



A Motto for Scientists as Marines of the planet?



Save Them All!

Most of the time nationalist parties govern most countries and the most powerful ones, China, India, Russia and the United States

Democracy is obviously better than dictatorship but alone is not enough because it is only practiced at single-nation level

The United States for instance is a democracy which exerts dominant economic, cultural and military influence over more than 50% of the world population, but its government is elected by only 3% of this population

How can we trust nationalists, whose explicit purpose is to defend first and foremost their country, to act in the interest of the human family?

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