RESEARCH AND SELF DETERMINATION INDEX (SDI)

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June 30, 2017, 11am-1pm Conference Room XXVII Palais des Nations



The Index is a **tool for comparative assessment** of the degree to which the right to science is realized around the globe

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Background (1)

Science as a human right under international law (right to "enjoy the benefits of scientific progress and its applications" under Article 15 of the ICESCR)

Country Status

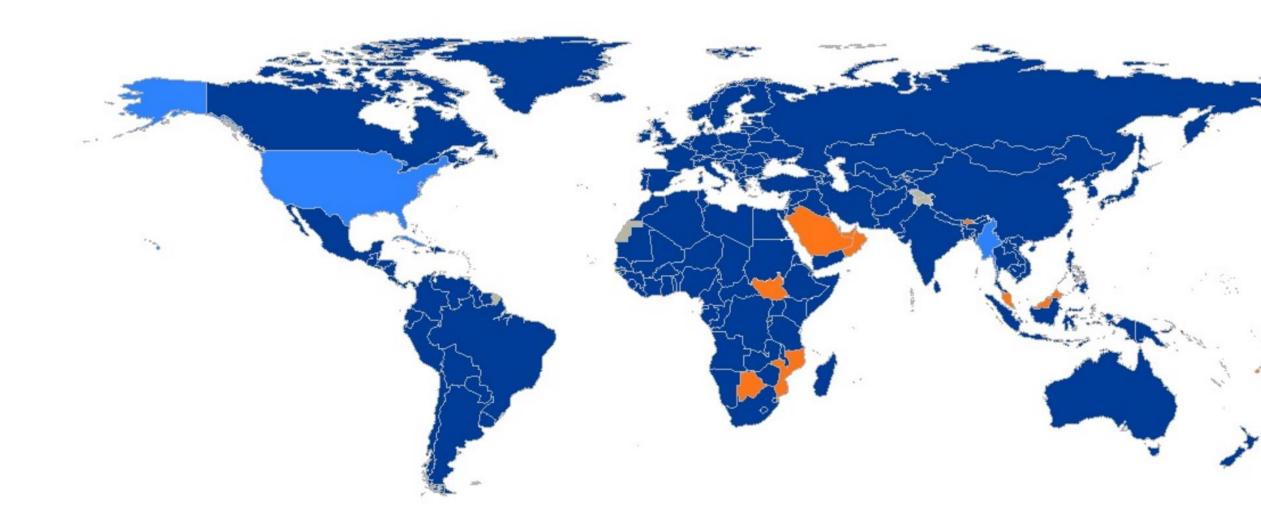
State Party (165)

Signatory (5)

No Action (27)

International Covenant on Economic, Social and Cultural Rights

Last Updated: 24 Mar 2017



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Background (1)

Science as a human right under international law (right to "enjoy the benefits of scientific progress and its applications" under Article 15 of the ICESCR)

Central role that member states play in the realization of human rights

Progressive realization: the human right to science is

- yet to be fully realized
- not equally realized around the globe (resources)

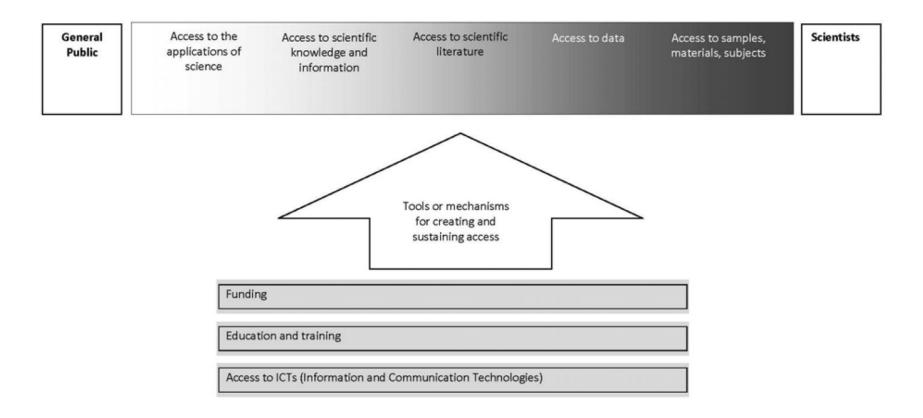
Domestic laws constrain (in some cases these are unnecessary obstacles) to researchers, health care professionals and patients

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Background (2)

The right to science as continuum

Diagram 1: Continuum of Access



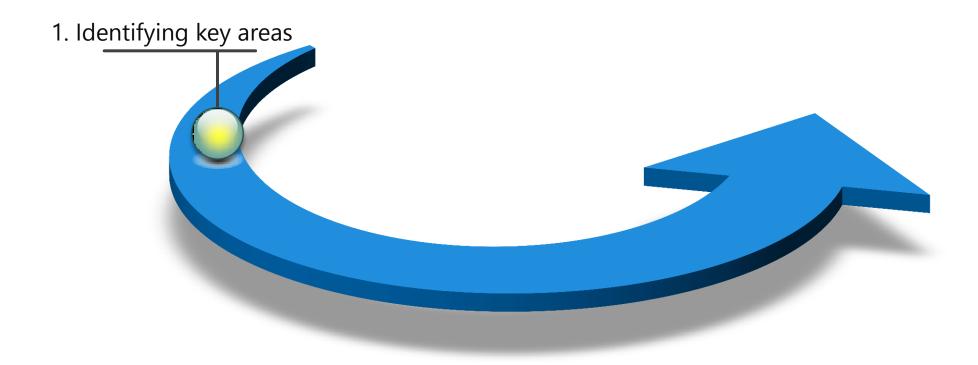
AAAS Science and Human Rights Coalition Defining the Right to Enjoy the Benefits of Scientific Progress and Its Applications: American Scientists' Perspectives (AAAS, October 2013)



Four areas

Methodology – a five-step process

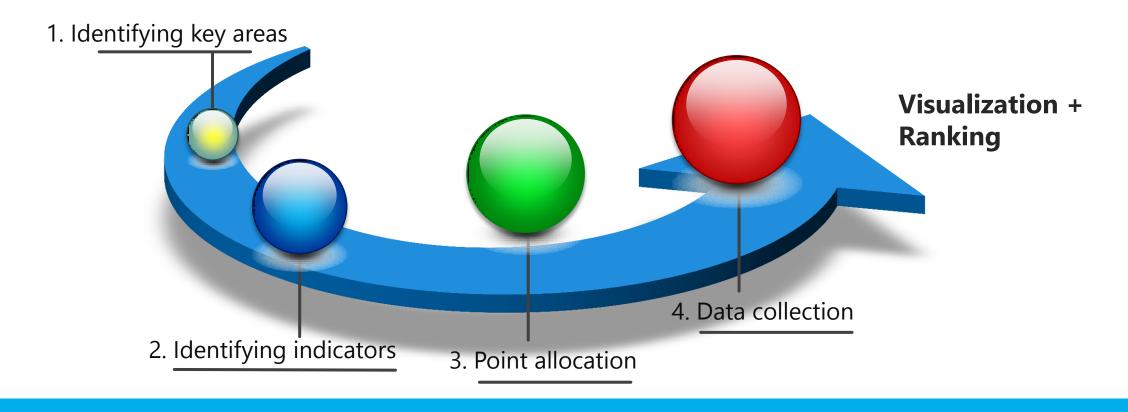
- Assisted reproduction technologies (ART)
- Research with human embryonic stem cells (hESC)
- End-of-life decisions
- Abortion and contraception



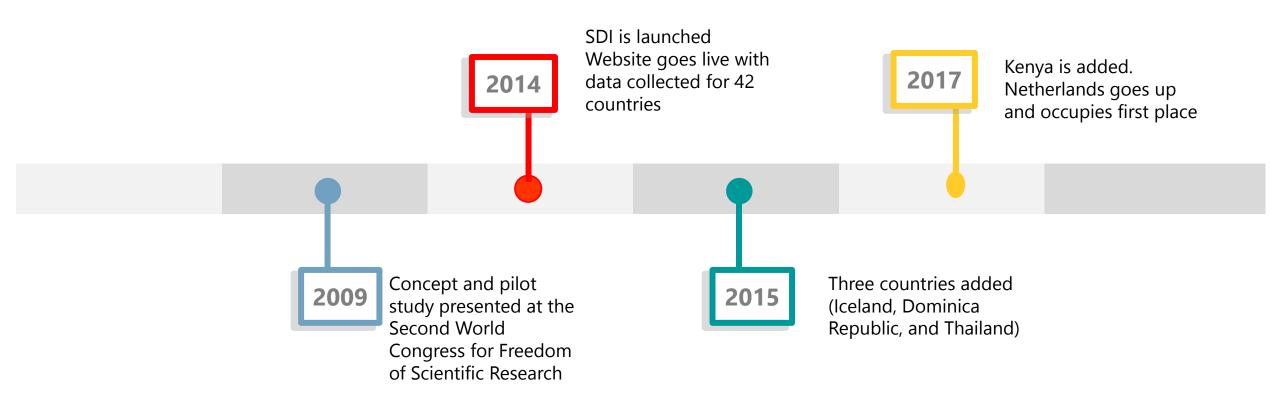
Four areas

Methodology – a five-step process

- 1. Assisted reproduction technologies (ART)
- 2. Research with human embryonic stem cells (hESC)
- 3. End-of-life decisions
- 4. Abortion and contraception



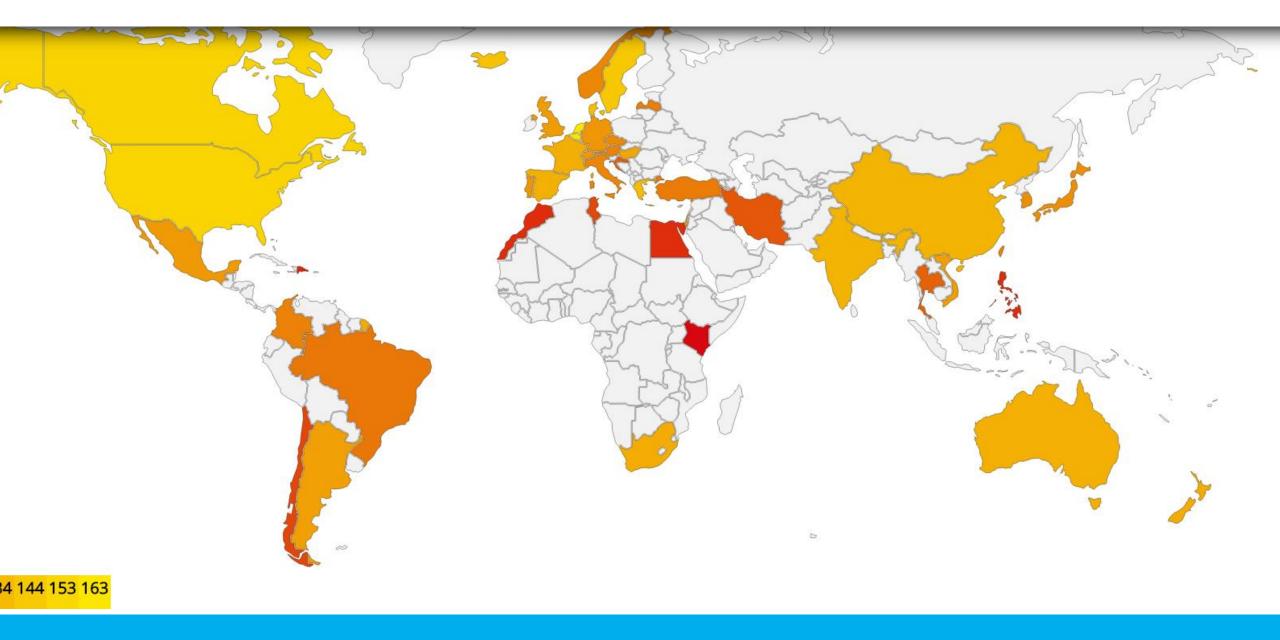






Index v1.0

- Open data system
- Overall ranking of 46 countries
- Analyses and ranking for each of the four areas
- Updates in 2014, 2016, and 2017
- 32 comprehensive country reports discussing current issues in the 4 areas of policy
- Country-specific news published with regularity on <u>freedomofresearch.org</u> and on twitter <u>@Free2research</u>.





Score-changing developments (1)

- The Supreme Court of India ruled to allow passive euthanasia for patients who are in a permanent vegetative state or are declared brain-dead
- An Israeli court approved passive euthanasia for patients with terminal ALS

Score-changing developments (2)

2014

- The Supreme Court of India ruled to allow passive euthanasia for patients who are in a permanent vegetative state or are declared brain-dead
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- British law is amended to permit mitochondrial transfer thus allowing using biological material from three different people in IVF to help prevent women from passing on genetic diseases to their children
- The Supreme Court of **Canada** struck down Canadian law prohibiting assisted suicide, giving Canadian adults who are mentally competent and suffering intolerably and enduring the right to a doctor's help in dying.
- Terminally-ill patients in **France** can be put in a "deep sleep" until they die
- First case of physician-assisted suicide is performed in **Colombia** despite it has been legal since the 1990s
- Physician assisted suicide is legalized in **Germany**

Score-changing developments (3)

- Japanese government authorizes the modification of fertilized human eggs
- The Supreme Court of **Brazil** ruled that "abortion should not be a crime when performed in the first three months of pregnancy." Case was brought in response to fetal defects from Zika virus
- Non-commercial surrogacy agreements were legalized in Vietnam

Score-changing developments (4)

2016

- Japanese government authorizes the modification of fertilized human eggs
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- Non-commercial surrogacy agreements were legalized in Vietnam

- The **Dutch** Health Council has recommended that scientists be allowed to create embryos specifically for research purposes,
- **Britain** granted its first research license to genetically modify human embryos for therapeutic purposes (assisted reproduction)
- **Japanese** government is considering limiting human embryo modification and prohibiting both the implantation of embryos with altered genes

Research with embryos and stem cells

Indicators

- 1. Is the use of human pre-embryos for experimental purposes an acceptable procedure? If not, can imported stem cells be used?
- 2. Is derivation of new hESC lines from supernumerary IVF embryos lawful?
- 3. Is derivation of new hESC lines from somatic cell nuclear transfer lawful?
- 4. Is derivation of new hESC from somatic cell nuclear transfer using non-human animal eggs lawful?

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Open questions

What about human genome editing?

- Laws often impose substantial restrictions to editing human germ line cells and manipulating embryos for clinical use (14-day rule)
- Laws are silent on other aspects of genome editing
- Uncertainty over whether already existing bans on genome editing in embryos and germ cells for clinical purposes (e.g. to induce a pregnancy) also encompass a prohibition to conduct research, including reproductive research

Towards the Index v2.0

Adding policy issues involving the right to science

- Human genome editing
- Animal genome editing
- Plant genome editing
- GMOs
- Research on controlled substances
- Public funding of research

Towards the Index v2.0

GMOs

Research

Prior authorization required

No authorization required

Research prohibited

Production/Cultivation

Prior authorization required

No authorization required

Prohibited

Commercialization (distribution/marketing)

Prior authorization required

No authorization required

Prohibited

Release into the environment

No restrictions

Restrictions

Mandatory technical requirements to

limit the potential release of GMOs

into non-GMO fields

Prohibition

Information and transparency measures

Required

Not required

Import/foreign companies operations

Free access to markets

Restricted access to markets

No access to markets

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Funding

- Associazione Luca Coscioni
- Union of Methodist and Waldensian Churches

Contacts

www.freedomofresearch.org



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