

Books



BIOECONOMY EDUCATION AND SCIENCE

A Sustainable Bioeconomy: The Green Industrial Revolution Chaker Ncibi and Mika Sillanpää

Bioeconomies: Life, Technology, and Capital in the 21st Century Vincenzo Pavone and Joanna Goven

Bioeconomy - Shaping the Transition to a Sustainable, Biobased Economy Iris Lewandowski (Ed.)

Creating Sustainable Bioeconomies: The Bioscience Revolution in Europe and Africa Ivar Virgin and E. Jane Morris

Developing the Global Bioeconomy: Technical, Market, and Environmental Lessons from Bioenergy

Patrick Lamers, Erin Searcy, J. Richard Hess, Heinz Stichnothe (Eds.)

Die Biotechnologie-Industrie (German) Julia Schlüter

Harnessing Nanotechnology for Sustainable Development in Africa Demissie, Ochieng, Foladori and Mengesha

Knowledge-Driven Developments in the Bioeconomy: Technological and Economic Perspectives

Dabbert, Lewandowski, Weiss and Pyka (Eds.)

POPULAR SCIENCE

A Crack in Creation Jennifer Doudna and Samuel Sternberg

Age of Discovery; Navigating the Risks and Rewards of Our New Renaissance Ian Goldin and Chris Kutarna

Biology is Technology Robert H. Carlson

City Farming - A How-to-Guide to Growing Crops and Raising Livestock in Urban Spaces Kari Spencer

Frugal Innovation - Do More with Less Navi Radjou and Jaideep Prabhu

Gene Jockeys: Life Science and the Rise of Biotech Enterprise Nicolas Rasmussen

Global Gardening – Bioökonomie: Neuer Raubbau oder Wirtschaftsform der Zukunft? (German) Christiane Graefe

Irrweg Bioökonomie – Kritik an einem totalitären Ansatz (German) Gottwald and Krätzer

Meeting Policy Challenges for a Sustainable Bioeconomy Jim Philp

Redesigning Life - How Genome Editing will Transform the World John Parrington

The Plant Messiah: Adventures in Search of World's Rarest Species Carlos Magdalena

FOOD OF TOMORROW

Clean Meat Paul Shapiro

On Eating Insects Josuah Evans, Michael Bom Frøst, Roberto Flore, Nordic Food Lab

The In Vitro Meat Cook Book Koert van Mensvoort and Hendrik-Jan Grievink

The Seaweed Cook Book Caroline Warwick-Evans and Tim van Berkel

Tomorrow's Table: Organic Farming, Genetics, and the Future of Food Pamela C. Ronald

❗ You can download all sheets of the Media Corner at www.gbs2018.com/resources

Movies & Clips

“WHAT IS BIOECONOMY?”

The Bioeconomy starts here! (1:57) EU Science & Innovation

Was ist Bioökonomie? (2:19) bioökonomie.de, Germany

Bioeconomy (2:31) University of Hohenheim, Germany

¿Qué es la Bioeconomía? (2:16) Bioeconomía Chile

The Biobased Economy (3:30) TU Delft, The Netherlands

What is the Bioeconomy? (1:05) BBSRC Media

The Blue Bioeconomy (3:40) Matís Iceland, Norden, NordBio

BIOECONOMY EDUCATION

Technology for Biobased Products (2:04) Online Course from TU Delft on edX

What is Sustainable Development?* (3:40)

A short animated film produced by the production company «Animaskin» for UNICEF Norway and the UN Association of Norway

Presentación del Curso Virtual Introducción a la Bioeconomía Argentina (2:16, 1:28, 1:04)

Ministry of Science, Argentina

Synthetic Biology One (2:25)

A free, open online course in synthetic biology beginning at the undergraduate level (youtube)

BIOECONOMY AROUND THE WORLD

Economic sustainability of bioenergy in Africa (3:13) Partners for Euro-African Green Energy (PANGEA)

Bioeconomy in Central Finland Region (2:24) West Finland European Office

The Andalusia Bioeconomy Strategy (4:37) Agricultura Pesca Y Desarrollo Rural, Spain

Bioeconomy in Norway (3:27)

Infographic animation made by 3D Visjon in cooperation with The Norwegian University of Life Science

Biobased Economy in Nederland (4:08) Rijksdienst voor Ondernemend Nederland

Malaysia - Asia's future Bioeconomy (3:55) Bioeconomy Corporation, Malaysia

South Africa's Bioeconomy (6:29) The South African Agency for Science and Technology Advancement

BiomassWeb: Toward a Sustainable Bioeconomy in Africa (8:33)

Center for Development Research (ZEF), Bonn, Germany (Ghana, Nigeria, Ethiopia)

Bioeconomía Argentina en Patagonia (2:47) Spanish Ministerio de Ciencia

*this movie can be found on vimeo.com, all others on youtube.com

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Games

ONLINE

BIO Challenge (Quiz)

Bioways, STAR ProBio, Biobased Industries Consortium - <http://www.fvaweb.eu/biochallenge/>

BIO...What? (Jump and run)

Bioways, BIOStep, Biobased Industries Consortium - <http://www.fvaweb.eu/biowhat/>

Climate Change (Round-based policy game)

Red Redemption - http://www.bbc.co.uk/sn/hottopics/climatechange/climate_challenge/index_1.shtml

Havina (Online application)

Finnish Forest Association - <https://www.smy.fi/en/artikkeli/time-travel-through-finnish-bioeconomy-takes-you-from-ice-age-to-future/>

Sustainable Shaun (Round-based resource management)

Sustainable Learning, EU-Commission - ec.europa.eu/environment/sustainableschaun/game_en.htm

BOARDGAMES

Biotech is Cool!

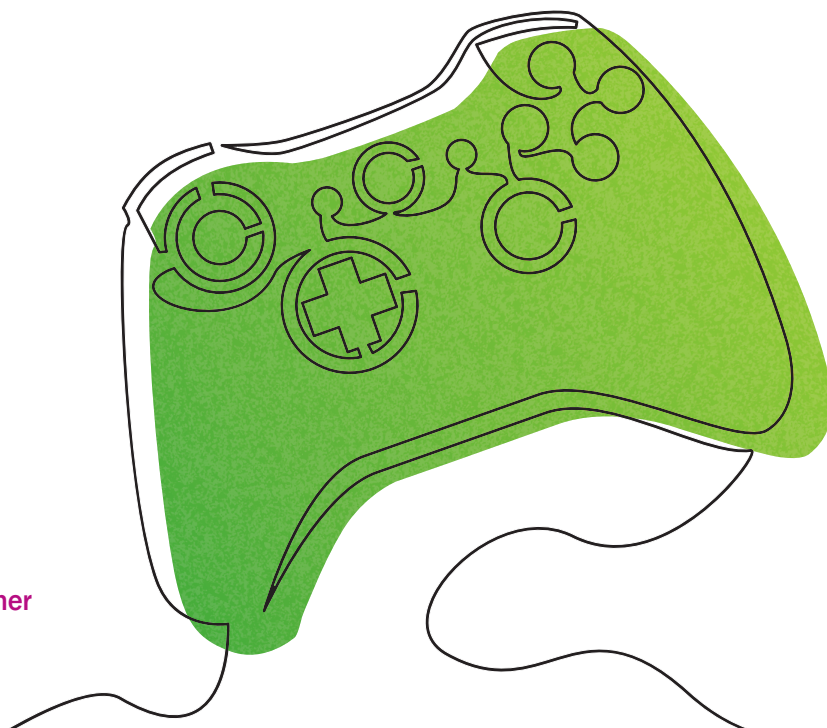
International Service for the Acquisition of Agri-biotech Applications (ISAAA)

GOGOALS! – SDG Game

Yacine Ait Kaci (YAK), creator of Elyx, and the United Nations Regional information Centre for Western Europe (UNRIC)

Keep Cool – Climate Game

Jasper Nikolaus Meya and University of Oldenburg



Virtual Reality

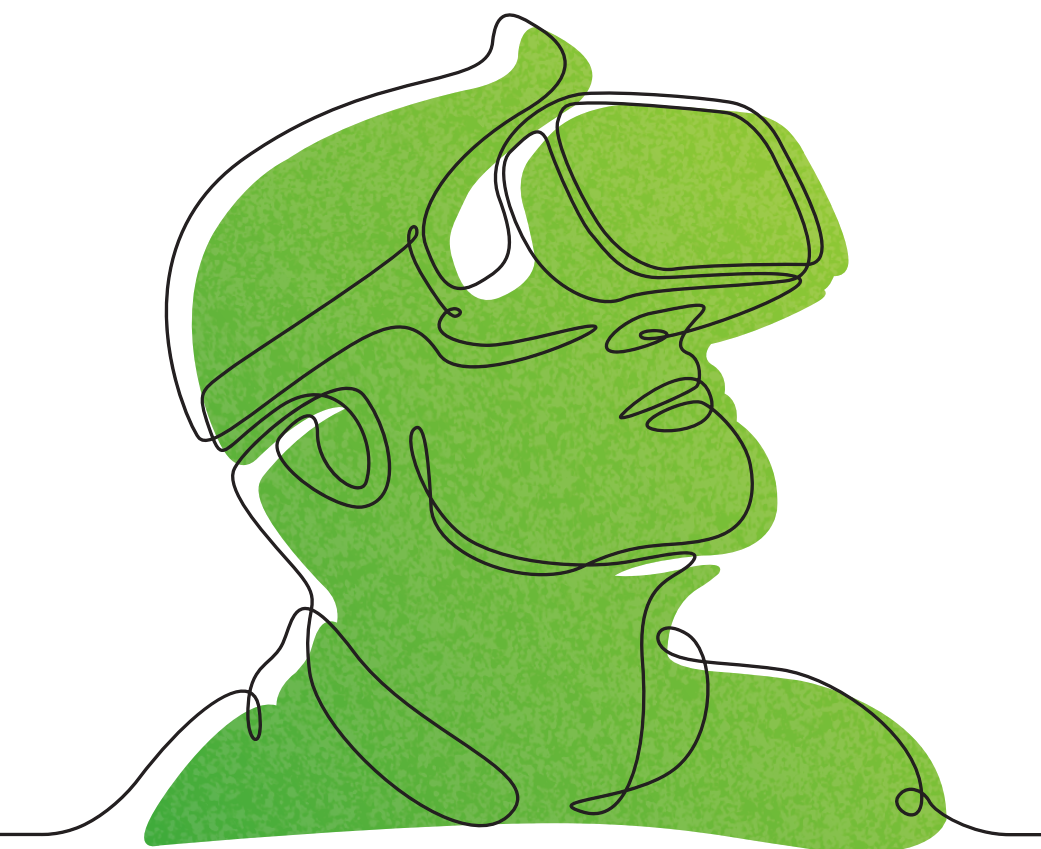
SHOWCASE MOVIE

Matís' Virtual Reality Video - The Bioeconomy (4:08)

Matís Iceland - <https://www.youtube.com/watch?v=EGhahe8ePh8>

Please ask for support if you want to try the VR Headset and watch the 360° movie.

Note before using VR: People who are prone to motion sickness have a risk of experiencing discomfort when using Virtual Reality. Do not use when you are sleep deprived, are under the influence of drugs or alcohol, or have digestive problems or epilepsy. Take off the headset immediately if you feel uncomfortable.



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Cartoons & Graphic Novels

Adventures in Synthetic Biology

Drew Endy, Isadora Deese and Chuck Wadey

Bioenergy - A Graphic Introduction

SUPERGEN Bioenergy Hub

Cartoon Guide to the Environment (Cartoon Guide Series)

Larry Gonick

Die große Transformation (German)

Hartmann, Hülsmann, Ugurel, Nippoldt, Goppel and Nippoldt

The Fundamentals Of Bioeconomy - The Biobased Society

Lene Lange, The Technical University of Denmark, DTU in collaboration with Jane Lindedam, BioValue SPIR

The Urban Planet - How Cities save our Future

Julia Schlüter

What is Synthetic Biology? Engineering Life and Lifelihood

Marie-Josée Saint-Pierre and Jim Thomas



Most of the cartoons and graphic novels are available online and were re-printed for the GBS2018



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Augmented Reality

BIO-CITY OF THE FUTURE

Start the HP Reveal Application on the tablet and hold it in front of the picture (ask for support).

Travel in time, to see how bioeconomy might transform future cities!



Augmented Reality

IN THE LAB

Start the HP Reveal Application on the tablet and hold it in front of the picture (ask for support).

Something which is still missing in this lab will appear ...



Augmented Reality

BIODIVERSITY AND BIOECONOMY

Start the HPReveal Application on the tablet and hold it in front of the picture (ask for support).

A movie will start about how insect biodiversity is linked to bioeconomy.



Augmented Reality

IN THE FIELD

Start the HPReveal Application on the tablet and hold it in front of the picture (ask for support).

Explore how a biogas plant could look like in this field.

