



Il ruolo della comunicazione per la società di domani

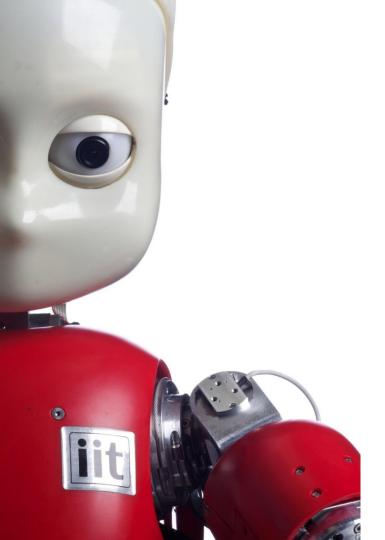
Innovazione e tecnologia per comunicare l'Italia di domani

Giovedì 17 novembre 2022, Officine del Volo, Milano Dalle ore 9.30 alle ore 12.15

Forum WPP | The European House - Ambrosetti



Giorgio Metta, Direttore Scientifico Istituto Italiano di Tecnologia



Four themes for the second half of the 21st century

Giorgio Metta

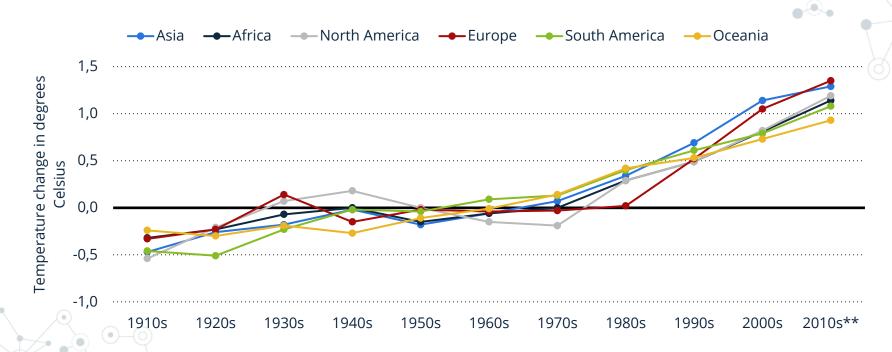






A measure of climate change

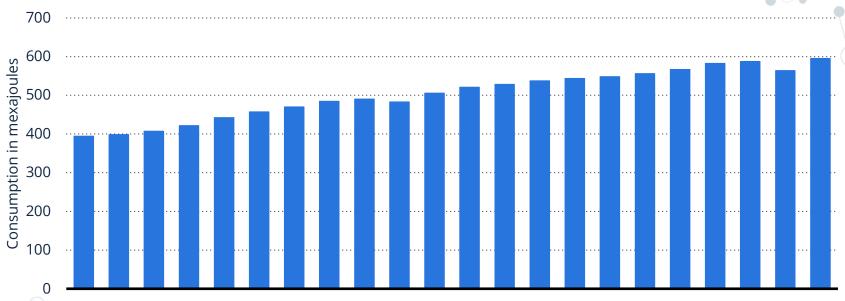
Global regional temperature change by decade 1910-2019



Energy consumption in exajoule

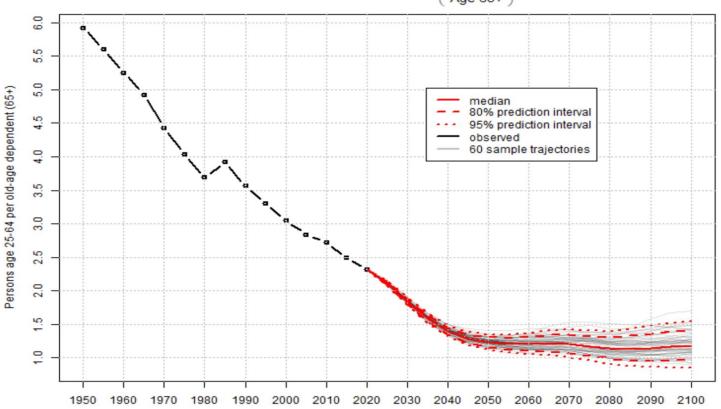
Global primary energy consumption 2000-2021

Source(s): BP



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021



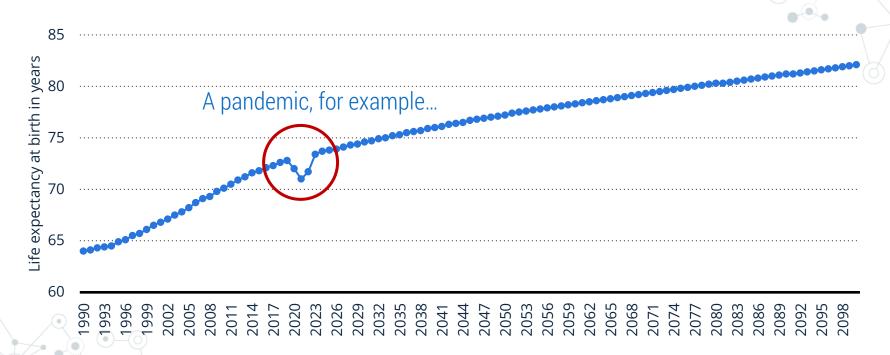


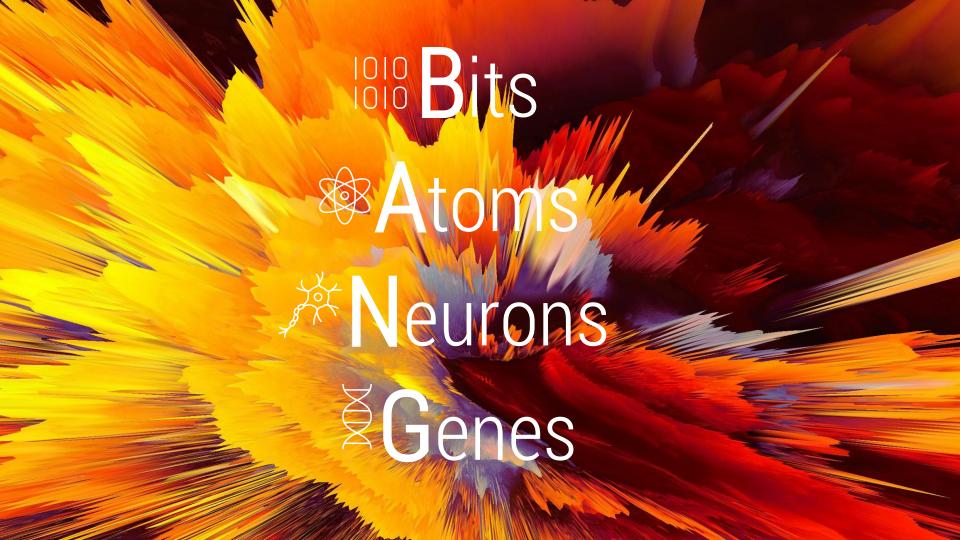


The unexpected (sort of)

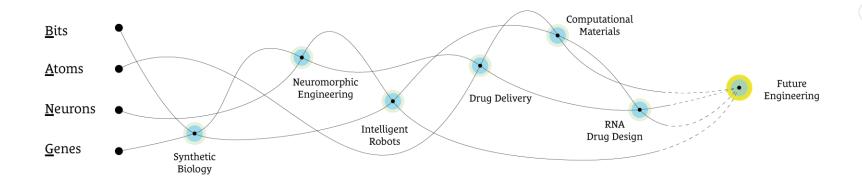
Projected global life expectancy 1990-2100

Source(s): UN DESA



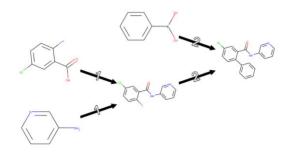


The process of converging technology





A somewhat unusual example





Test set accuracy for chemical synthesis plans (%)





== Slide 10 ==

Nanomaterials for energy

Al and data-driven

Database Generating NC Ligands materials Machine Data Mining Learning screening of structures and Calculations Calculations NC NC-ligand Exp. Database New NC Conditions properties

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MISSION

Robotized laboratory

More data



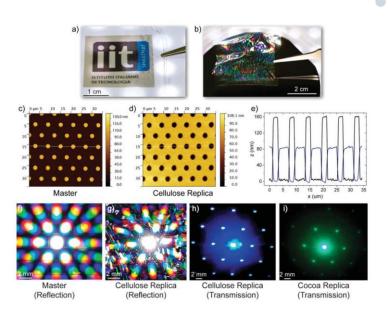


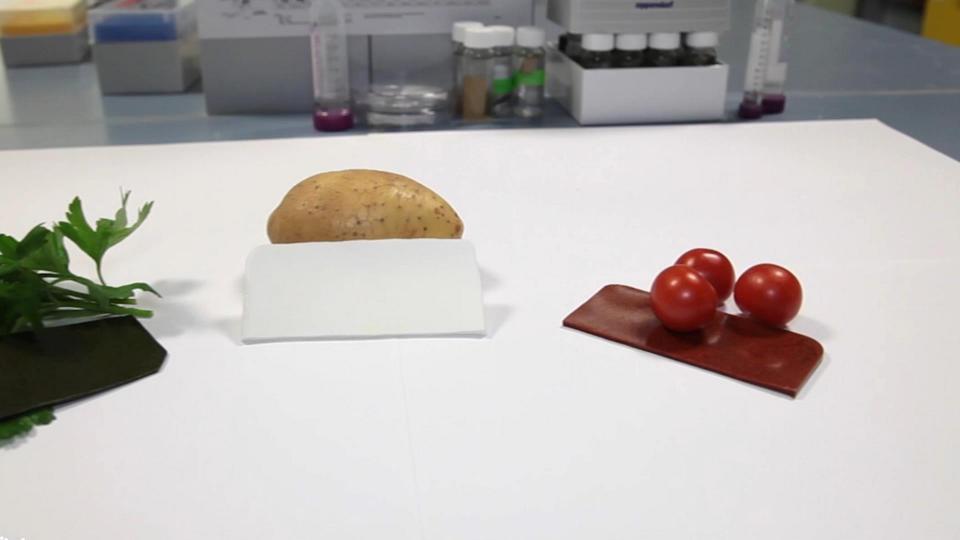


Nanomaterials for sustainability

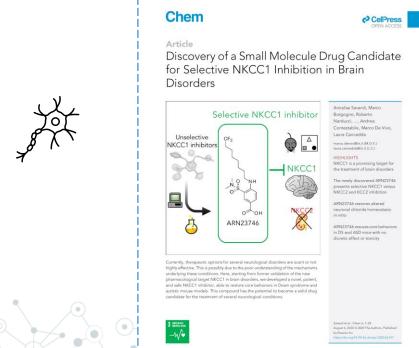


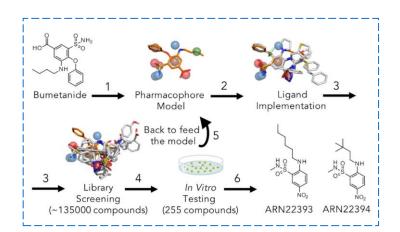






Adapting or discovering new drugs



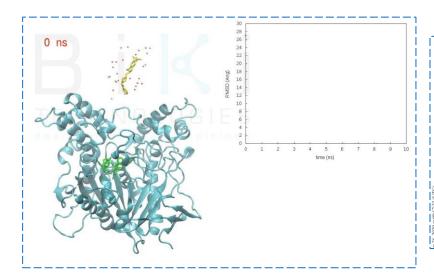


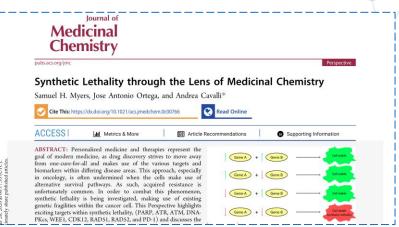




Simulations and therapy

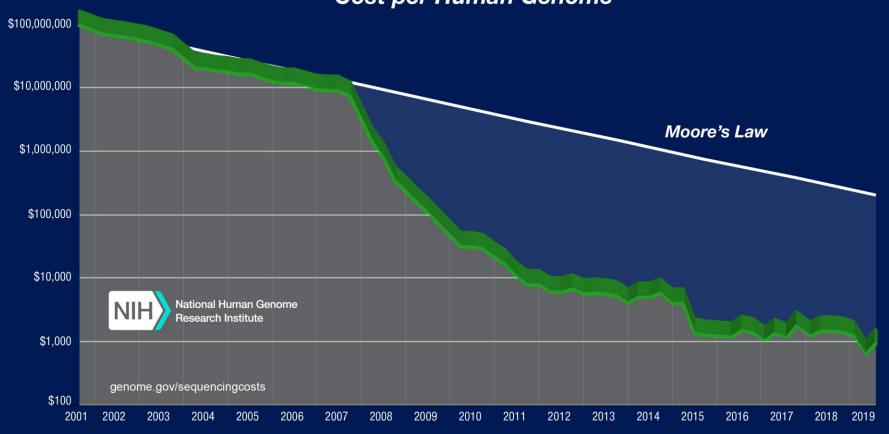
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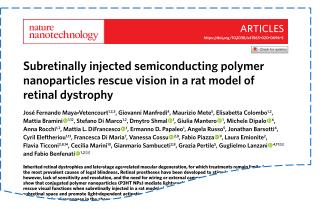


Cost per Human Genome

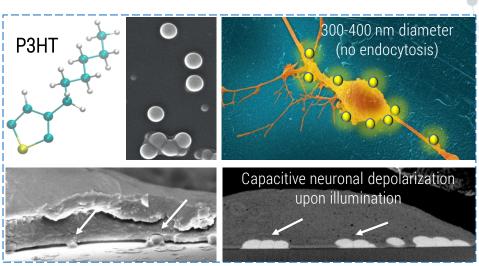


Nanotechnologies for human health









A lot happens because of computers

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