

Will COVID-19 make us take one more step in stronger collective international mechanisms for health R&D?

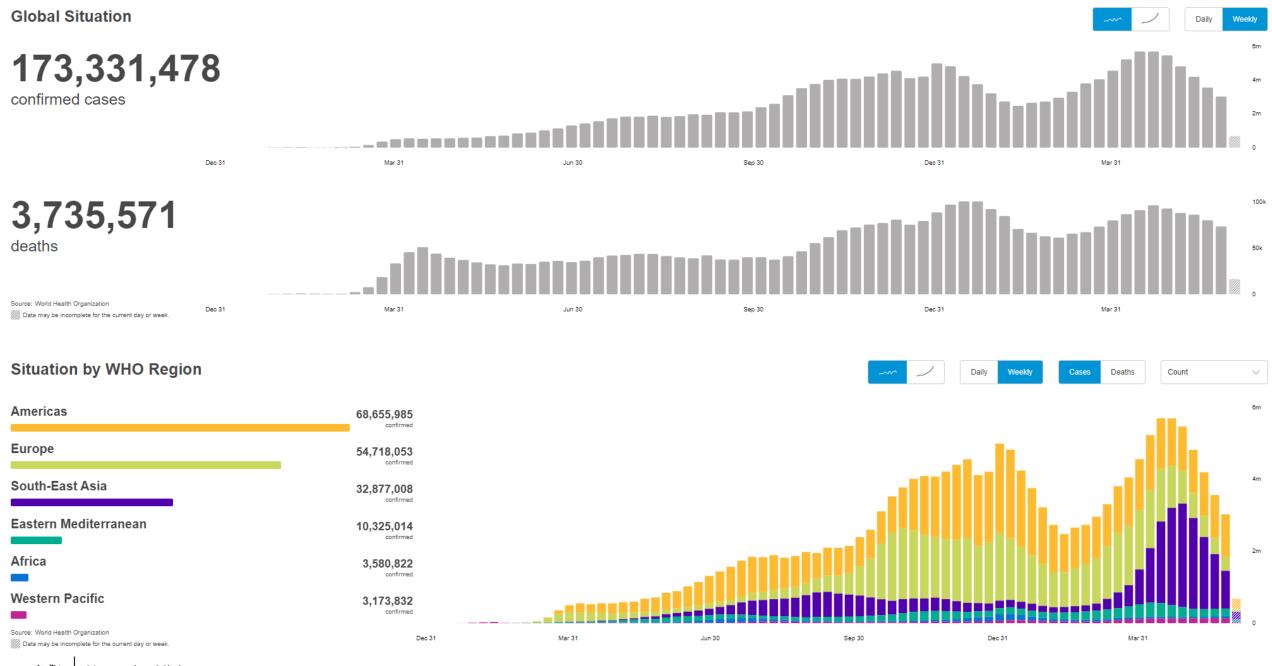
Plenary: Addressing the role of research and innovation in times of crises

John-Arne Røttingen

June 9 at 9:30 CET - Eu-SPRI 2021 Conference:

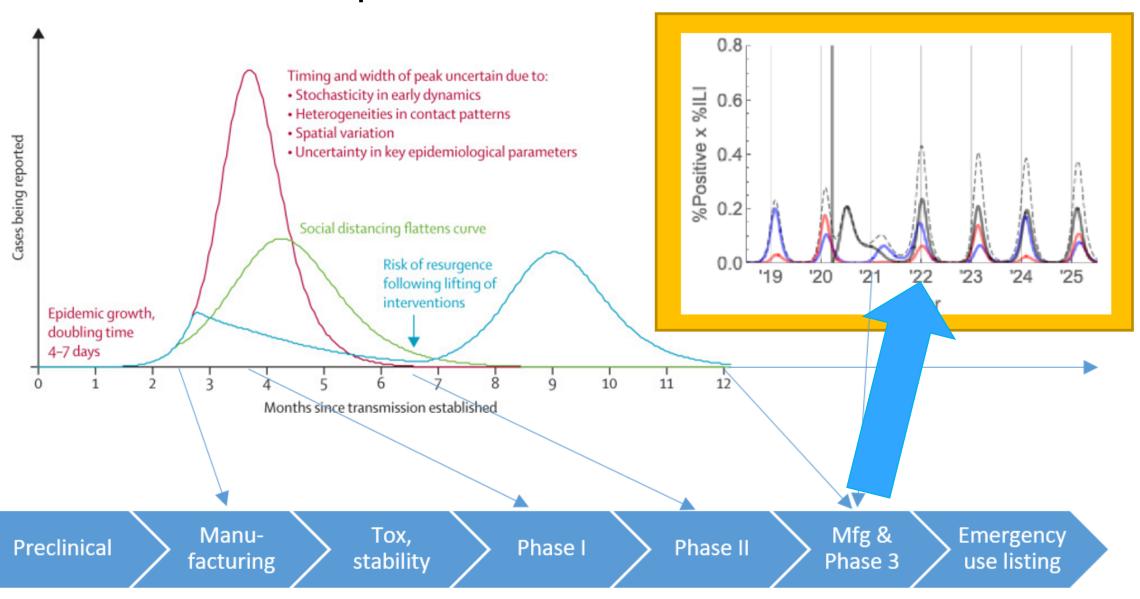
Science and innovation - an uneasy relationship?



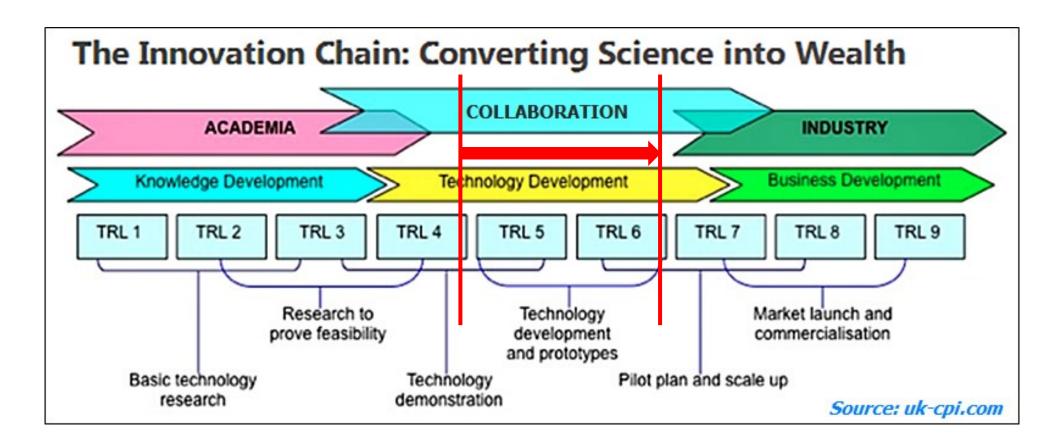


The COVID-19 epidemic curve

or roreign Anans



Need for public private partnerships (PPPs)

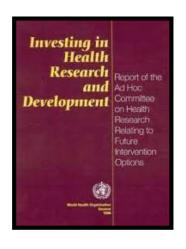


Calls for Increased R&D

Longstanding recognition: market-driven global R&D system does not sufficiently meet the needs of majority of the world's population, 80% of which lives in developing countries









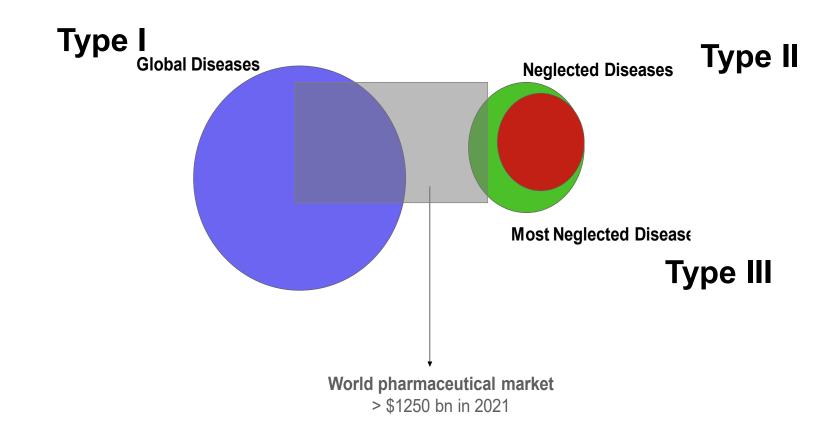
WHO-UNICEF-UNDP-World Bank Special Programme for Research and Training in Tropical Diseases (1975)

Commission on Health Research for Development (1990)

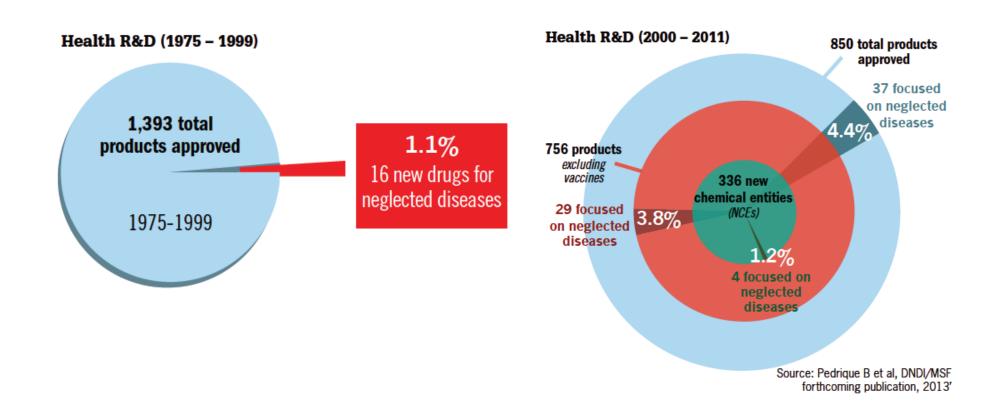
Investing in Health Commission on Research and Development (1996)

Macroeconomics and Health (2001)

Neglected diseases



Imbalances in global R&D investments and public health needs





Neglected diseases: Tuberculosis, malaria and tropical diseases, around 12% of GBD

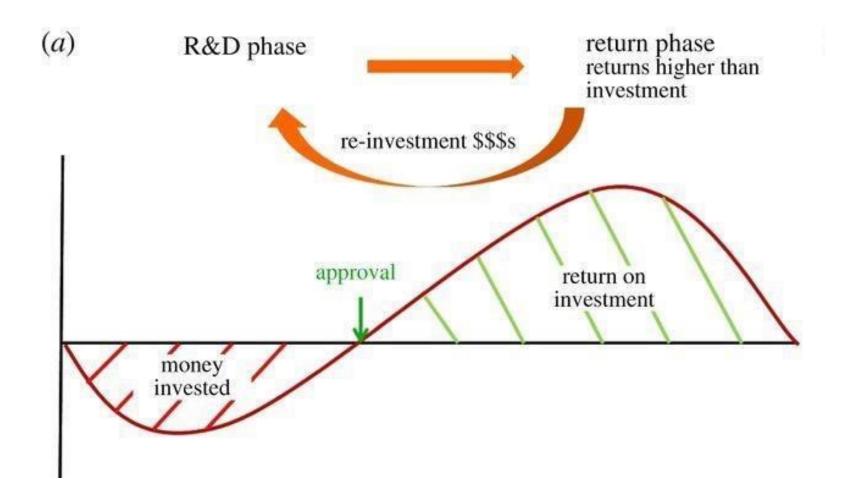
Innovation and Access



Innovation and Access



The traditional pharmaceutical commercial model

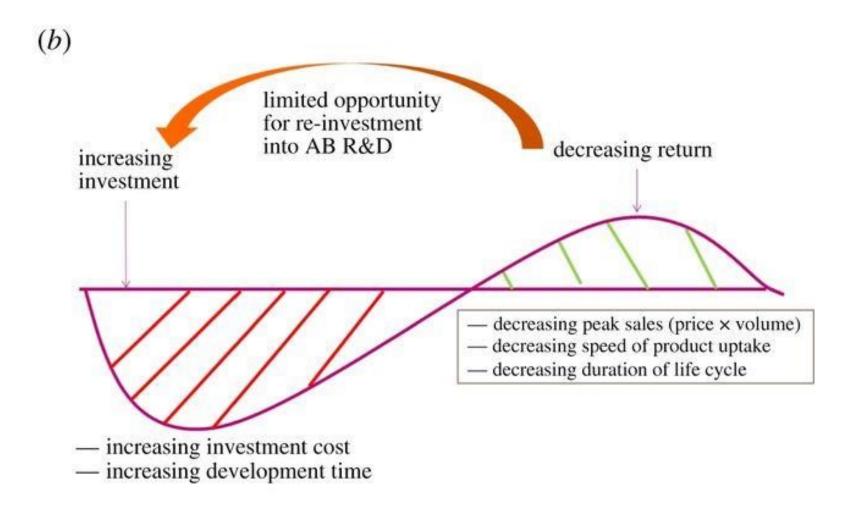




Innovation and Access

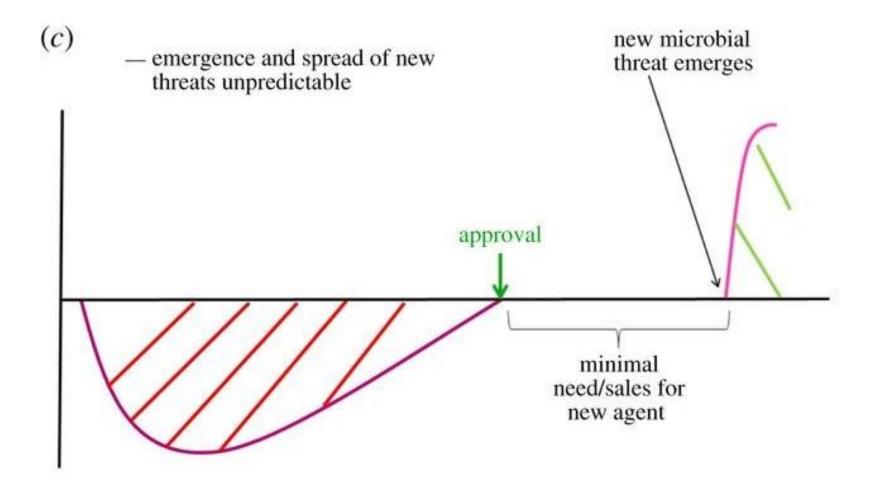


Application of traditional commercial model to antibacterials





Commercial model does not incentivize future potential unmet needs





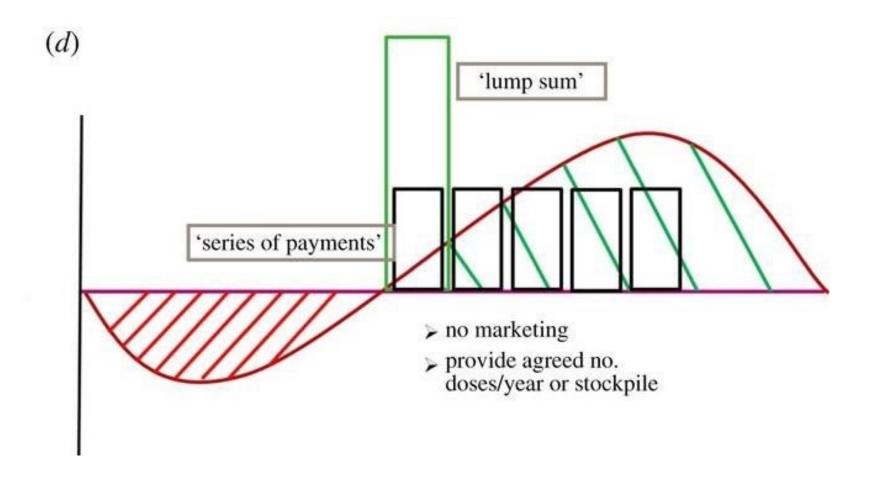
Innovation and Access Market shaping – expand market



Innovation and Access Delinkage – a separate innovation market

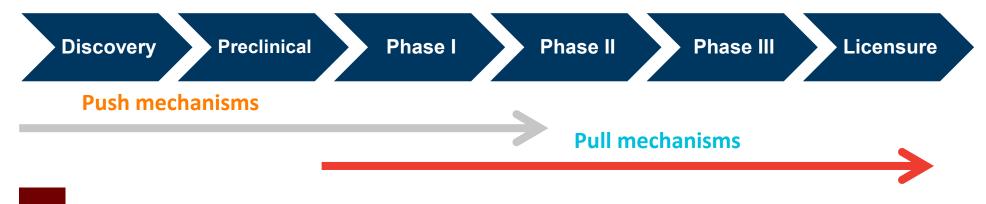


Principles of a de-linked model





R&D financing and incentive mechanisms



- E X A M P L
- Open knowledge innovation
- PDP financing
- Grants
- Subsidies
- Tax breaks

- Advance Market Commitment (AMC)
- Milestone and end prizes
- Debt/loans
- Equity/bonds
- Government-backed volume guarantees

Poverty related diseases - Process at WHO

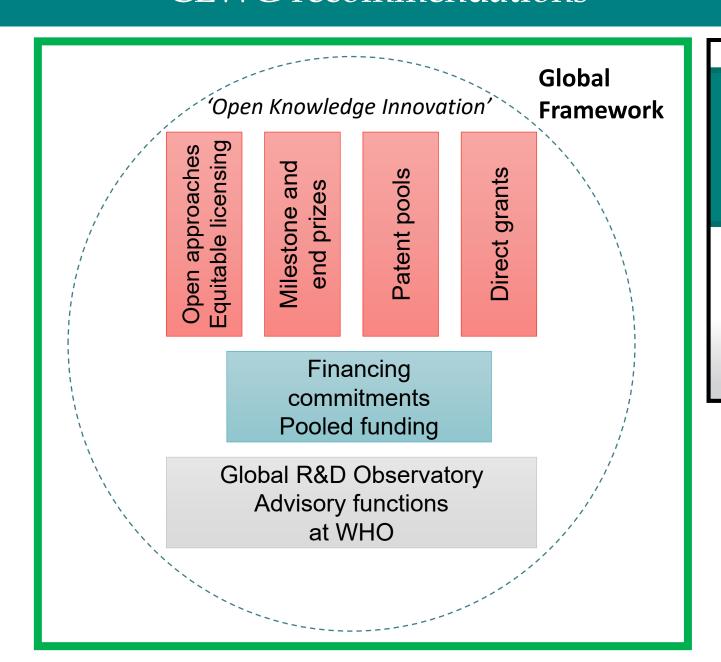
2003 2006 2008 Resolution Resolution Resolution WHA56.27 WHA59.24 WHA61.21 Intellectual property Public Health, innovation, Global strategy and plan rights, innovation and essential health research of action on public health, innovation and public health and intellectual property rights: towards a global intellectual property strategy and plan of action **Expert Working Group on Commission on Intellectual** Intergovernmental **Research and Development: Property Rights, Innovation Working Group Financing and Coordination** and Public Health Research Global Strategy and Plan of Action Public health **Development** innovation and intellectual property rights Coordination and Financing Report of the BEFORE GETTER COMMISSION OF BITELECTIAL PROPERTY BOOKS, INDOVINCES AND PUBLICHBAIR **Expert Working Group**

- The main issue not resolved in the IGWG when negotiating the Global Strategy and Plan of Action:
 - Element 7. Promoting sustainable financing mechanisms
- Find solutions that «secure adequate and sustainable financing for research and development, and improve coordination of its use»



CEWG recommendations

Convention on Global Health R&D



Research and Development to Meet Health Needs in Developing Countries: Strengthening Global Financing and Coordination

Report of the Consultative Expert Working Group on Research and Development: Financing and Coordination



15 year long process - 2003-2018 at WHO

2003 2010 2006 2008 2012-2018 Resolution **Decision** Resolution Resolution Resolution Resolution WHA65.22 WHA71(9) WHA56.27 WHA59.24 WHA61.21 WHA63.28 Intellectual property Public Health, innovation, Global strategy and plan Follow up of the report of Global strateay and plan Establishment of a rights, innovation and essential health research of action on public the Consultative Expert of action on public consultative expert health, innovation and Working Group on public health and intellectual property health, innovation and working group on Research and rights: towards a global intellectual property intellectual property. research and strategy and plan of **Development:** Overall program review development: financing action Financing and and coordination Coordination **Expert Working Group on Consultative Expert Working** Commission on Intellectual Intergovernmental **WHO Governing WHO Governing Research and Development:** Group on Research and **Property Rights, Innovation Working Group Bodies (EB/WHA) Bodies (EB/WHA) Financing and Coordination Development: Financing and** and Public Health Coordination XTY-FIFTH WORLD HEALTH ASSEMBLY Research Public health **Global Strategy and Plan of Action** Follow up of the report of the Consultative Expert on Public Health, Innovation and Intellectual Property Overall programme review of the Research and Development to Meet Working Group on Research and Development: global strategy and plan of action on **Development** innovation and Financing and Coordination Health Needs in Developing Countries: public health, innovation and intellectual property intellectual property rights Strengthening Global Financing Coordination and Financing and Coordination Having considered the report of the Consultative Expert Working Group on Research an Report of the review panel EWG in order to take forward the work of the Expert Working Group earlier established und Report of the REPORT OF THE COMMISSION ON INTELLECTION PROPERTY MODIFIC INNOVATION **Expert Working Group** AND PURCEIPHANE WELCOMES the analysis of the CEWG report and expresses its appreciation to the Ch November 2017 Report of the Consultative Expert Working Group on Research and Development: Financing and Coordinatio World Health Organization

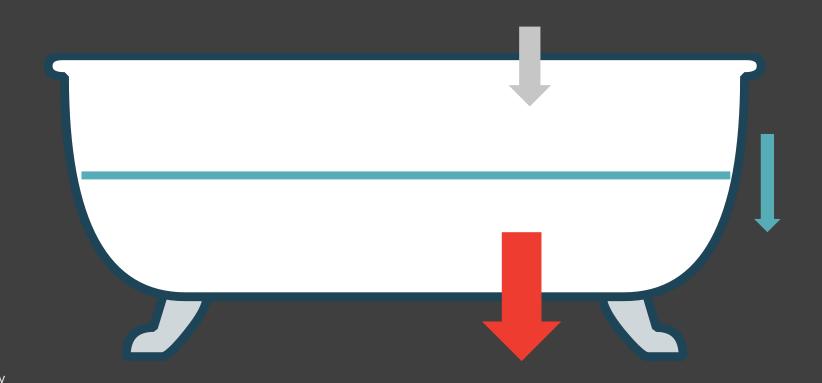
World Health Organization

World Health Organization

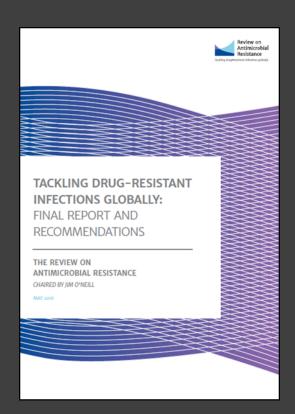


Sustainable effectiveness of antibiotics - a «bath tub problem»

a common pool resource

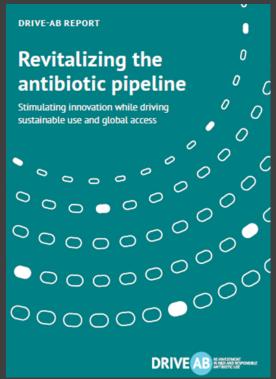


Convergence of recommendations



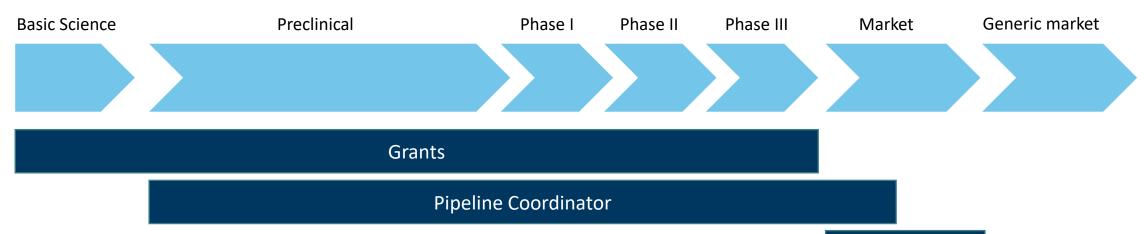








DRIVE-AB's recommended models



Market Entry Rewards

CARB-X Combating Antibiotic Resistant Bacteria	BARDA	AMR action fund	GARDP Global Antiblotic Research 6. Development Partnership Asent Old U/Antiblotic Research	repair impact fund nove holdings	imį ND BB
USD 502m (2016-21)	USD 960 m (2010-19)	USD 1,000m (2020-2030)	€ 270m (2017-23)	USD 165m (2018-23)	€ 700m (2014-20)
Novel therapeutics, diagnostics, preventatives, devices	Novel therapeutics, diagnostics, preventatives, devices	Novel therapeutics	Novel therapeutics, Optimize antibiotics, Develop combinations	Novel therapeutics, companion diagnostics	Novel therapeutics, diagnostics, economic models

Continuity payments





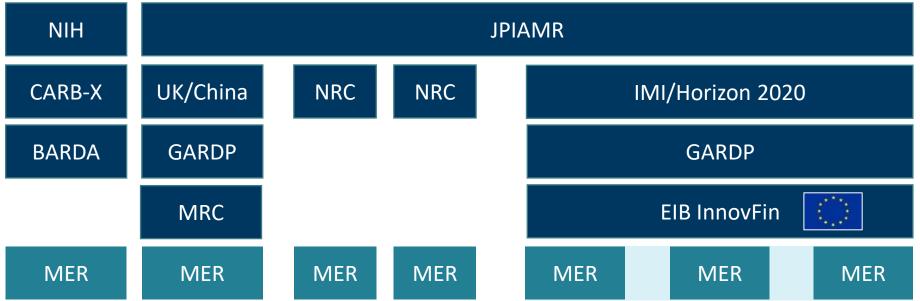
Collaboration/coordination mechanisms





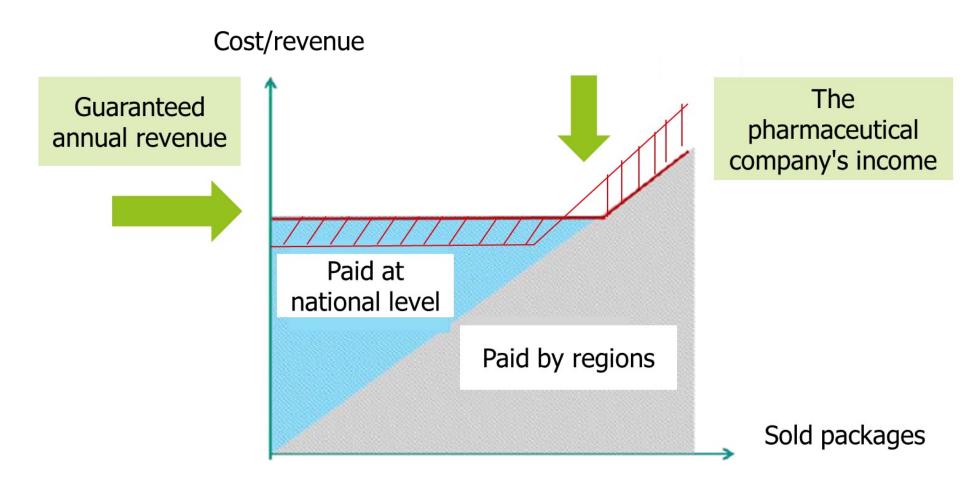
Coordination Alliance of like-minded nations willing to commit to same principles

G20 AMR R&D Collaboration Hub





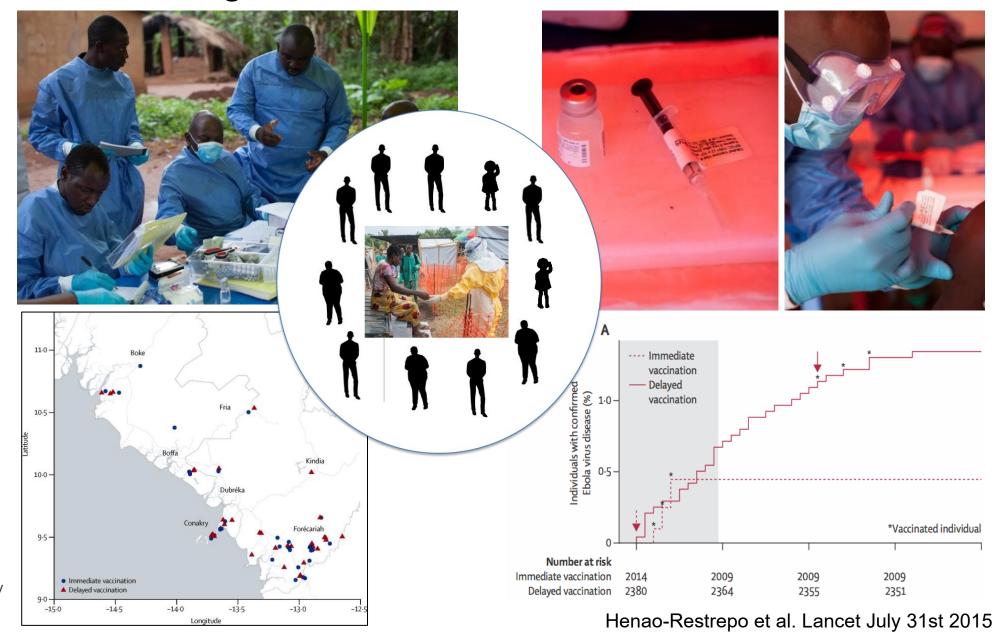
UK and Sweden testing «pull»-incentives



Kilde: Questions and answers about procurement in pilot study for new remuneration model. Public Health Agency of Sweden: https://www.folkhalsomyndigheten.se/contentassets/92ec9ceb2f2f428cb683add24b4f785b/faq-upphandling-pilotstudie.pdf (Accessed July/August 2020)

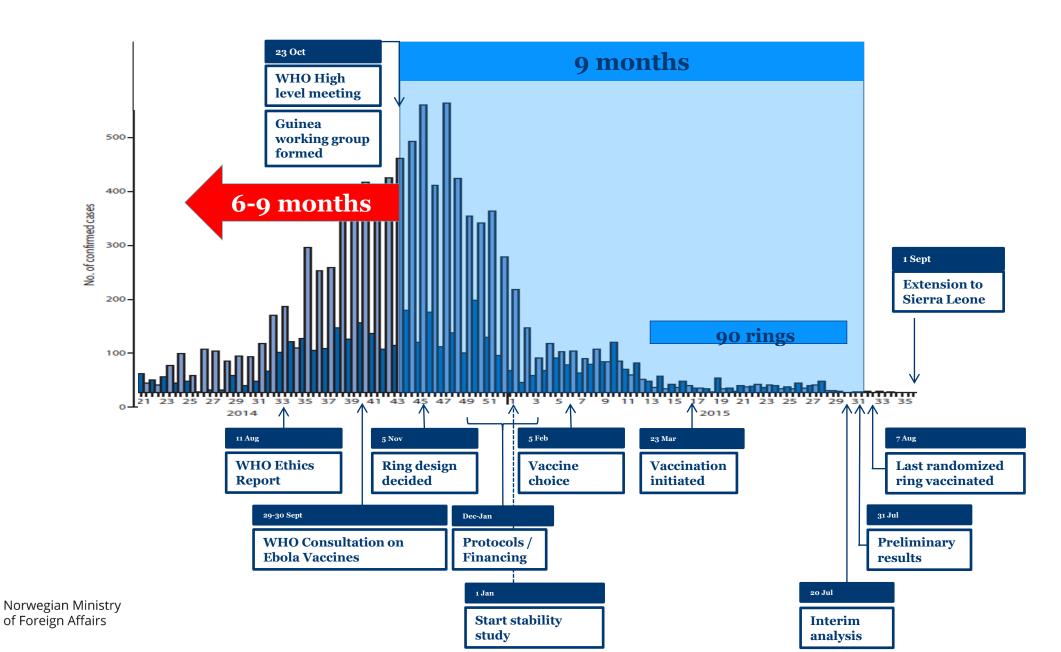


Guinea Ebola ring vaccination trial 2014-16





Testing of Ebola vaccines during the West African epidemic





















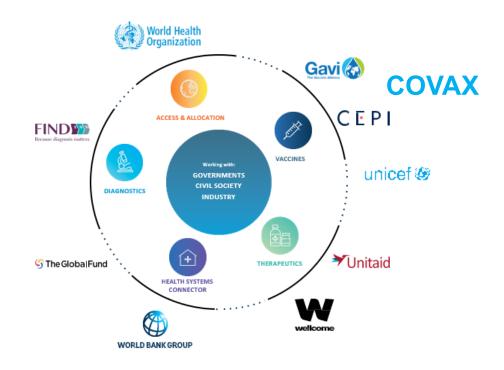
Economist.com



Global collaboration – The Access to COVID-19 Tools (ACT) Accelerator

- accelerate development of tests, treatments & vaccines
- ensure equitable access to COVID-19 tools globally





Working with Governments, Civil Society and Industry for impact

Post Covid-19 reforms: Global governance for health R&D

- Global Health Threats Council
- Financing Facility
- Pandemic Preparedness Partnership (G7)
- ACT-A 2.0 platform for medical countermeasures
- Pandemic treaty Framework convention

Collective actions
actions
Collaborative decisions
Coordination
Communication
Common norms, principles and goals





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