



EC research and innovation strategy and actions for preparedness and response to outbreaks

**IMI Stakeholder Forum
28-29 September 2016**

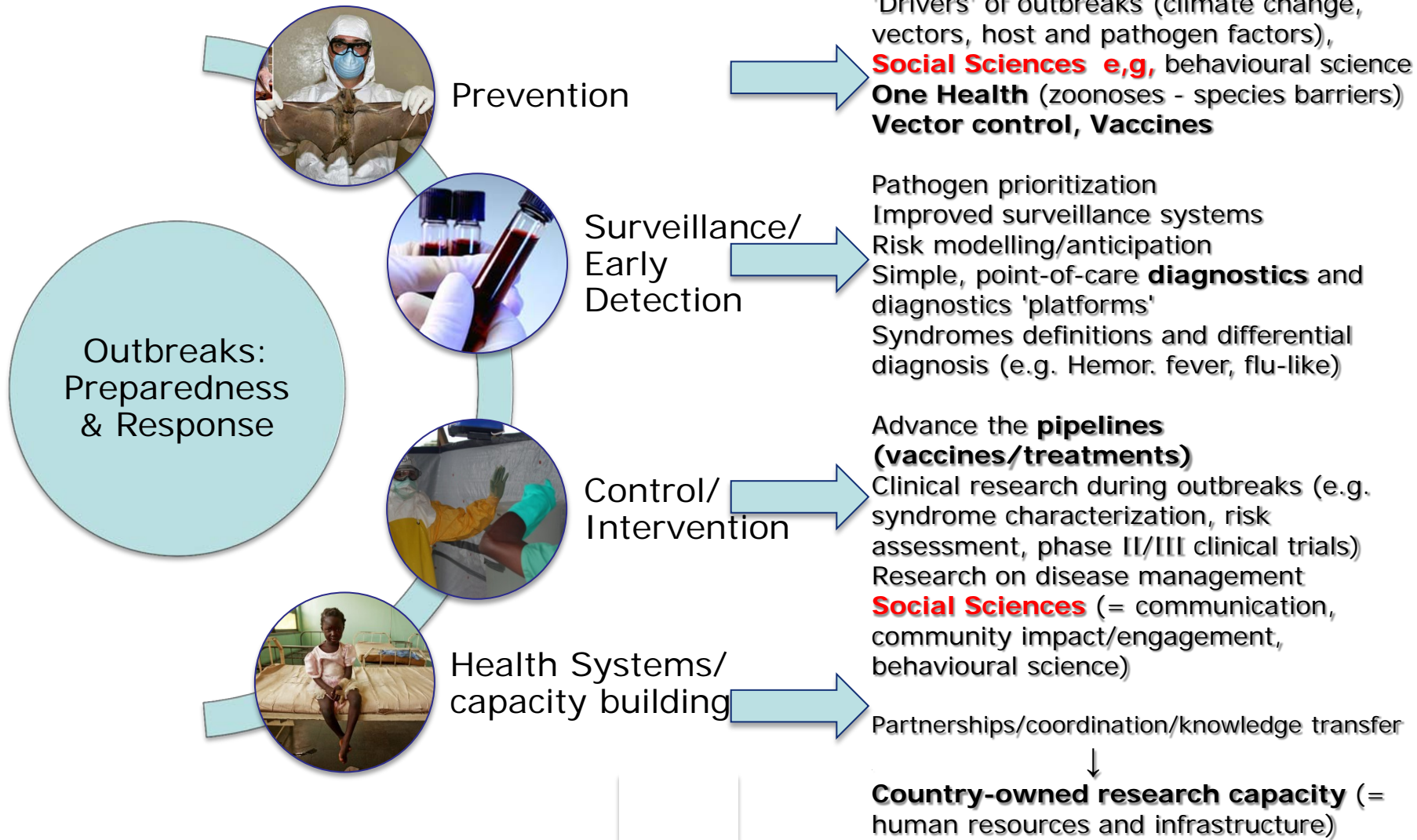
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EC research and innovation strategy Objectives

- *Improve prevention and early detection of ID threats in Europe and globally.*
- *Promote a 'One Health' approach.*
- *Develop the pipeline of medical countermeasures against prioritised (and unexpected!) pathogens.*
- *Ensure that a comprehensive research response is swiftly launched in case of an outbreak.*
- *Facilitate global collaboration, in line with the WHO Blueprint preparedness plan.*

Research Priorities





Main funding instruments for preparedness research and response under Horizon 2020

- **Collaborative research** (Countries, Sectors, Disciplines)
SC1 (Health), SC2 (Bioeconomy), SC6 (Societies), SC7 (Security)
Research infrastructures



- **Innovative Medicines Initiative (IMI2)**
 - Public-private partnership between **EC** and **EFPIA**



Innovative Medicines Initiative

- **European and Developing Countries Clinical Trials Partnership (EDCTP2)**
 - Partnership between **14 European and 14 African countries**

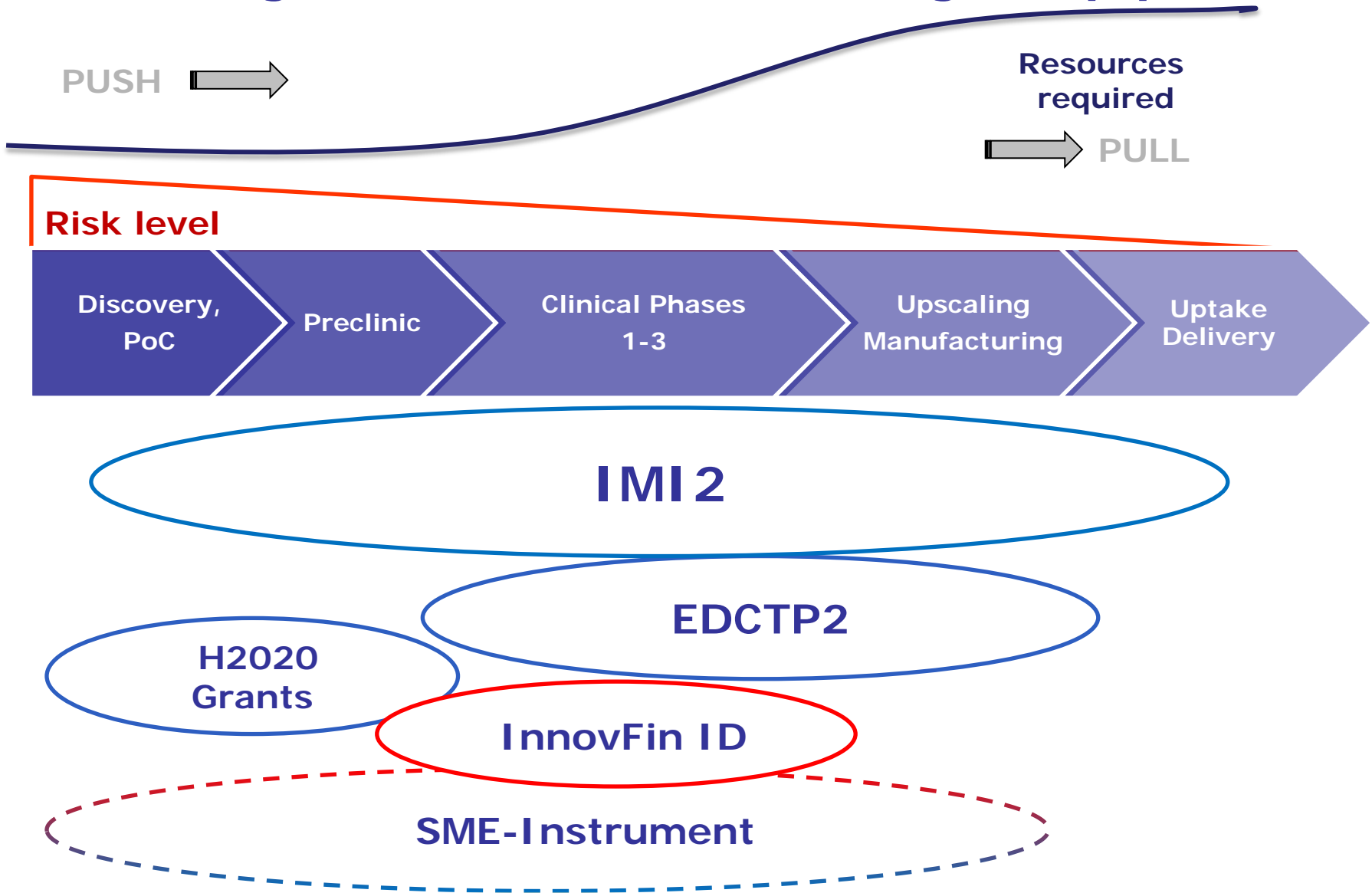


- **InnovFin**
Infectious Diseases

Research and
Innovation



EC funding instruments for feeding the pipeline

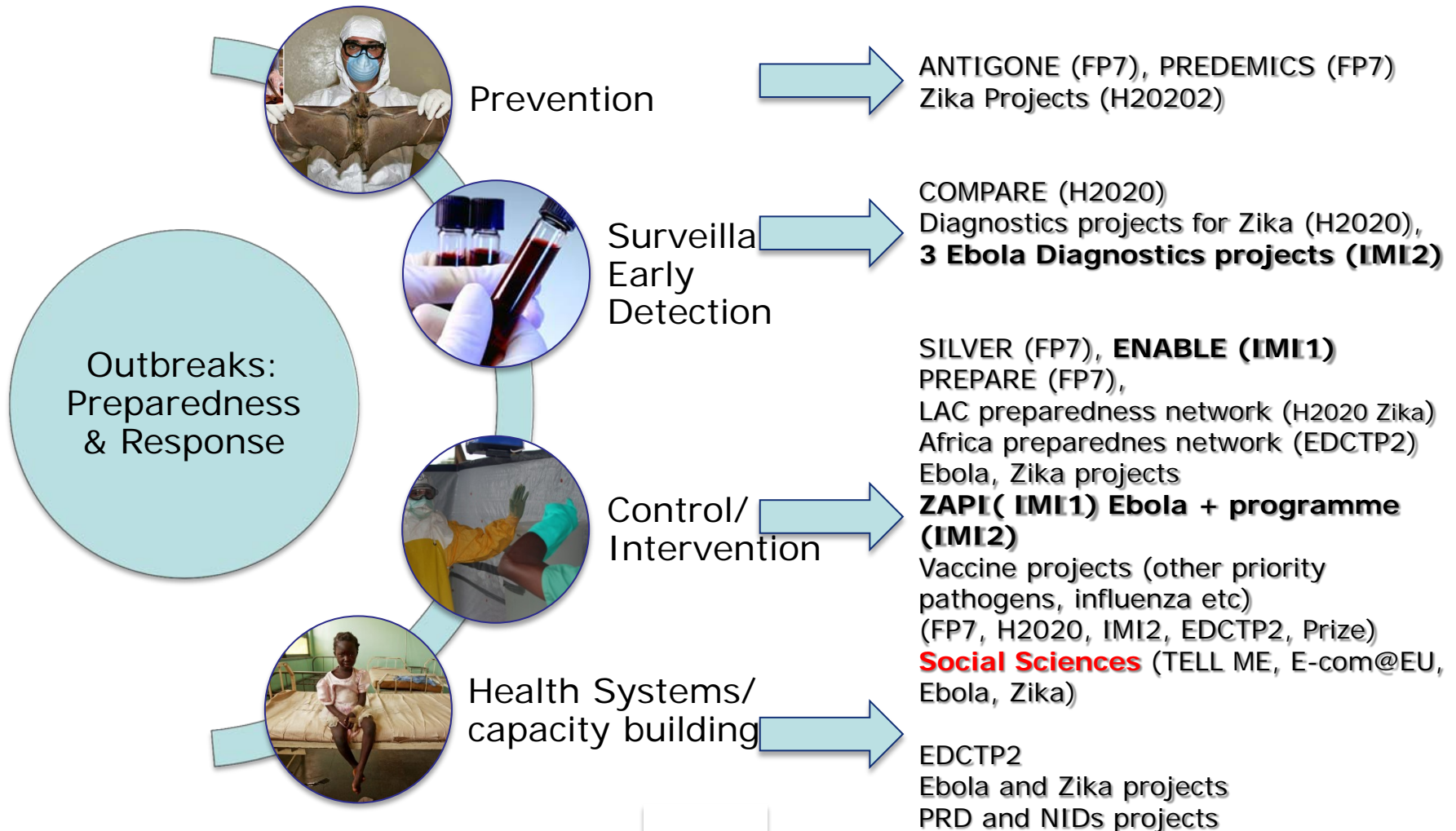




Specific instruments for response to an outbreak

- ***Flexibility built into ongoing projects***
Allow the EC or the participants to change research agenda in the case of an outbreak
- ***Flexible Financial Regulation***
Foresees the possibility to award grants without a call for proposals in exceptional and duly substantiated emergencies.

Examples of Research Projects





Recent calls under H2020

- *Continuation of IMI2 Ebola+ call (continuously open call)*
- *Understanding (animal)host-pathogen-environment interactions (SFS-14-2016)*
- *Vaccine development for malaria and/or neglected infectious diseases (SC1-PM-06-2016)*
- *Research Infrastructures for the control of vector-borne diseases (INFRAIA-01-2016-2017)*
- *Research Infrastructures for vaccines (INFRAIA-01-2016-2017)*
- *Addressing the urgent research gaps against the Zika virus and other emerging threats in Latin America (SC1-PM-22-2016)*



Addressing the urgent research gaps against the Zika virus and other emerging threats in Latin America

- 3 proposals under negotiation working jointly on:
- Address Zika research gaps:
 - Clinical studies: prospective cohorts of pregnant women and newborns, adults with CNS involvement
 - Studies on natural history and clinical spectrum of disease, transmission modes, pathogenesis & immunological consequences of infection, diagnostics development, mathematical modelling, animal reservoirs, vector competence and control, social studies...
- Harmonization of data collection & data sharing roadmap between the 3 consortia
- Build-up a LAC region preparedness research network



Open calls under EDCTP 2

- *Ethics and Regulatory Capacities*
- *Vaccines for poverty-related diseases*
 - *Accelerate the clinical development of new vaccines (preventive or therapeutic) against one of the PRDs/NIDs/Emerging diseases*
- *Strategic actions supporting large-scale clinical trials*
 - *With potential to achieve rapid advances in the clinical development of new or improved medical interventions against PRDs*
- *Research and clinical management of patients in PRD epidemics in Sub-Saharan Africa*
 - *Provide accelerated evidence for optimal clinical management for patients and for guiding the public health response to any severe infectious outbreak*



The EC participate in international initiatives

- *Coalition for Epidemic Preparedness Innovations*
<http://cepi.net/>



- *International Research Consortium on Animal Health*
<http://www.star-idaz.net/>



- *Global Research Collaboration for IDs Preparedness*
<http://www.glopid-r.org/>





GLOPID-R : Global Research Collaboration for Infectious Disease Preparedness

- Established in 2013
- Facilitates an **effective research response** within 48hrs of a significant outbreak with pandemic potential, in order to **save lives and economies** worldwide
- Brings together **25 major funders of preparedness research** whose involvement is crucial for a comprehensive and rapid global outbreak response
- Identifies **existing weaknesses** that prevent a timely and efficient outbreak response
- Drives a process to **overcome gaps and obstacles**, identify concrete actions and build collaborative solutions
- Chaired by the European Commission, DG RTD



Priority GloPID-R Actions in 2016

1. **Zika**
2. **Yellow Fever**
3. **Data Sharing** - Develop a framework for data sharing during public health emergencies
4. **Readiness Plan** – Response modes and triggers for research actions

Research alone is **not** enough!



- *Data and sample sharing framework needed*
- *Regulatory : accelerating licensing without compromising safety*
- *Liability and insurance issues in the pandemic setting*
- *Large-scale manufacturing, QA, access*
- *IP matters*
- *Infrastructure resources for rapid vaccine deployment*
- *Post-licensure commitments*
- *....*