#### CEPI

# CEPI New vaccines for a safer world

John-Arne Røttingen, CEO September 29, 2016











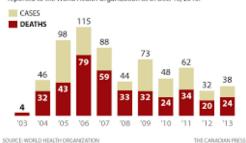
### The challenge of epidemics





#### **H5N1 AVIAN FLU CASES**

Annual confirmed human cases for avian influenza A(H5N1) and deaths reported to the World Health Organization as of Dec. 10, 2013:









### Calls for global action



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### CEPI-actions January - June



High Level Meeting Davos 21 January



Task Team Meeting Meeting, Oslo 6-7 April



Task Team Teleconferences



Leadership Group Meeting Washington DC 17 May



Interim CEO appointed Interim board constituted Business Plan presented to stakeholders

### CEPI-actions July - September



and

Leadership

**Group Tele-**

conferences









### Challenges

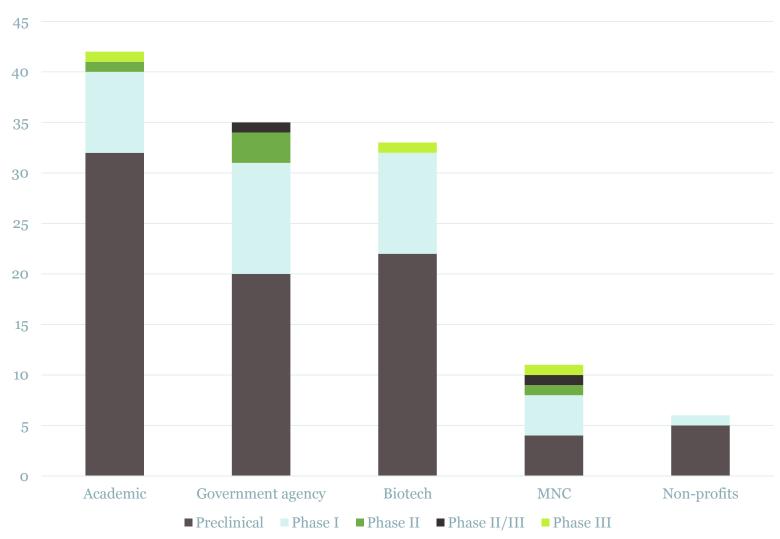
- 1
- The pipeline is weak for most emerging infectious diseases characterized by lack of market incentives

- 2
- Unilateral, uncoordinated government efforts to fund R&D preparedness are inefficient and unsustainable in addressing global epidemic risks
- 3
- Clinical & regulatory pathways are not easily adaptable to epidemic contexts

- 4
- Incentives are lacking to motivate greater industry engagement

### Vaccine pipelines







### Opportunities

The Ebola momentum: vaccines are feasible despite a risky development pathway

- The Ebola momentum: it is possible to advance the clinical development of safe and effective vaccines against EIDs in an emergency
- R&D actors supporting EID vaccine pipelines: government health research agencies, academic research institutions, biotechs, multinational vaccine manufacturers, and non-profits
  - Manufacturing capability and capacity for vaccines has always been a critical bottle-neck in epidemic events.

    Major vaccine manufacturers can drive pipelines forward

### The CEPI response

Rationalize & accelerate

Rationalize and accelerate research and development responses to new outbreaks

Coordinate

**Coordinate** resources of industry, academia, governments, philanthropies, and NGOs

Prioritize & facilitate

**Prioritize** platform technology and vaccine targets and **facilitate** the advanced development of vaccines for emerging infectious diseases

### Vision

Vaccines contributing to preventing outbreaks from becoming humanitarian crises

### Mission

To stimulate, finance and co-ordinate vaccine development against emerging infections with epidemic potential, especially in cases where market incentives alone do not achieve this

### Approach

### End-to-end approach

- 1. Move new vaccines through late preclinical studies to proof of concept and safety in humans, and
- 2. Develop platforms that can be rapidly deployed against known and unknown pathogens.

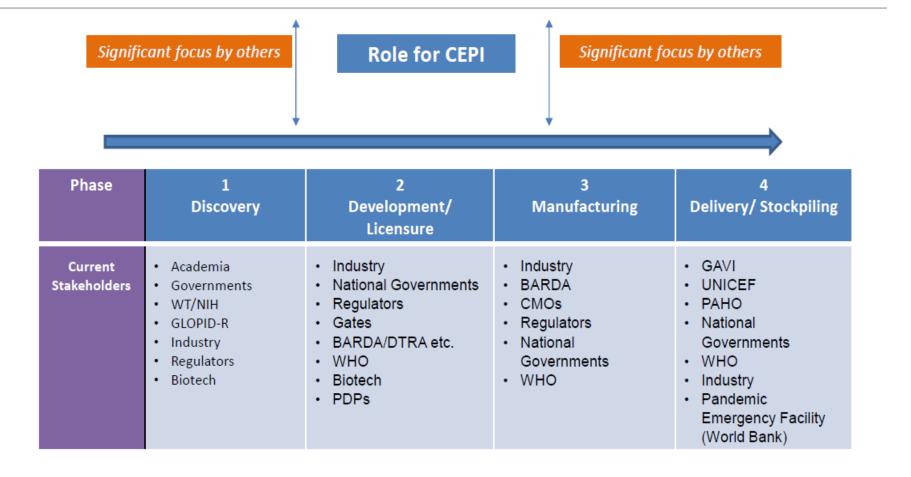
### Strategic objectives

- 1 Preparedness
- 2 Response speed
- 3 Predictability

4 Equity

## CEPI fit along the end-to-end spectrum

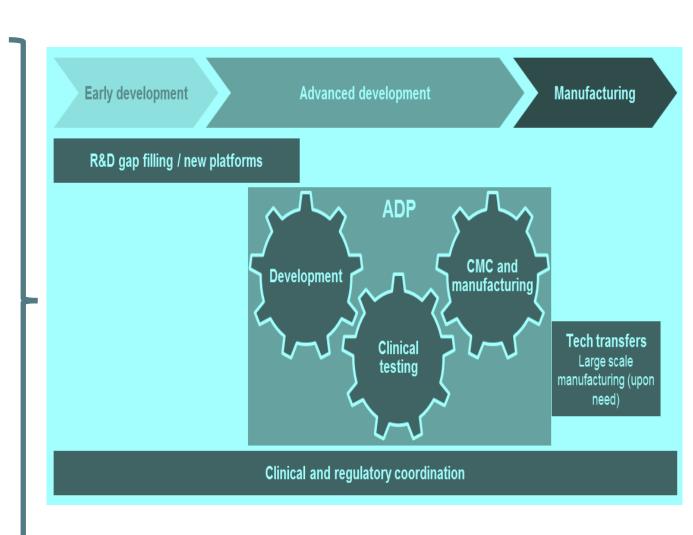
**CEPI Scope and Fit with other Initiatives** 



### The CEPI partnership model

CEPI is building capabilities through a mix of partnership models:

- Advanced
   Development
   Partnership (ADP)
- Targeted investments for filling additional R&D gaps
- 3. Clinical and regulatory coordination network
- 4. Complementary coordination initiatives



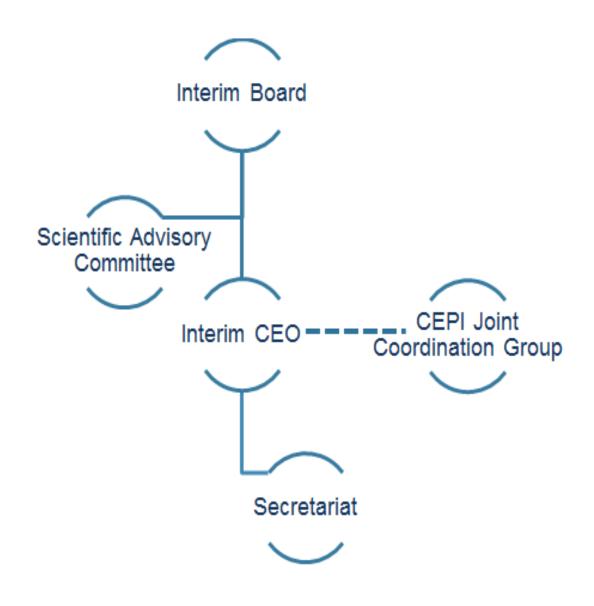
### CEPI's operating principles

1 Equitable access

2 Cost coverage

Shared benefits

### Organizational setup: startup phase



### CEPI Interim Board

#### K. Vijay Raghavan, chair

Secretary, Department of Biotechnology Ministry of Science and Technology, India

#### Peter Piot, vice chair

Director of the London School of Hygiene and Tropical Medicine

#### Jane Halton

Permanent Secretary Department of Finance, Australia

#### **Nicole Lurie**

Assistant Secretary, Department of HHS, US

#### **Tore Godal**

Special Adviser on Global Health Ministry of Foreign Affairs, Norway

#### **Christopher Whitty**

Chief Scientific Adviser Department of Health, UK

#### Kesetebirhan Admasu

Minister of Health, Ethiopia

#### **Jeremy Farrar**

Director, Wellcome Trust

#### Trevor Mundel

President Global Health Division The Bill & Melinda Gates Foundation

#### Adar Poonawalla

CEO and Executive Director Serum Institute of India

#### Nima Farzan

President and CFO PAXVAX INC.

#### Julie Gerberding

**Executive Vice President** Merck

#### Moncef Slaoui

Chairman of vaccines **GSK** 

#### Joanne Liu

International President Medecins sans Frontieres

#### Victor Dzau

President of the Institute of Medicine National Academy of Sciences

#### **Arnaud Bernaert**

Head of Global Health and Healthcare Industries World Economic Forum

#### Ruxandra Draghia-Akli

Deputy director-general of DG RTD. **European Commission** 

#### Yah Zolia

Deputy Minister of Health and Social Welfare Liberia

#### Observers

#### Marie-Paule Kieny)

Assistant Director-General World Health Organization

#### Mark Feinberg (Chair of SAC)

President & Chief Executive Officer, IAVI

#### **Peggy Hamburg (Chair of JCG)**

Foreign Secretary of the Institute of Medicine National Academy of Sciences

#### John-Arne Røttingen

Interim CEPI CEO



04/10/2016

20

### **CEPI** interim SAC

Mark Feinberg (Chair)

International AIDS Vaccine Initiative

Alan D. Barrett

University of Texas Medical Branch

**Amadou Sall** 

Institute Pasteur Dakar

**Bernard Fanget** 

Abivax, Neovacs

**Chery Gagandeep Kang** 

Christian Medical College Vellore

Connie Schmaljohn

University of Maryland

**Daniel Brasseur** 

Eurpoean Commission

**David Kaslow** 

PATH/CIVA

**David Wood** 

World Health Organization

George Fu Gao

Chinese Center for Disease Control and Prevention

**Gunnstein Norheim** 

Norwegian Institute of Public Health

**Heinrich Feldman** 

NIH National Institute of Allergy and Infectious Diseases

**Helen Rees** 

Wits Reproductive Health and HIV Institute

Jesse Goodman

Georgetown University

Kathleen Neuzil

University of Maryland

**James Robinson** 

James Robinson Biologics Consulting

Maharaj Kishan Bhan

**JIPMER** 

**Peter Smith** 

London School of Hygiene and Tropical Medicine

**Rick Bright** 

Biomedical Advanced Research and Development Authority (BARDA)

**Stanley Plotkin** 

VaxConsult

Subhash Kapre

Inventprise



04/10/2016

### CEPI financing needs

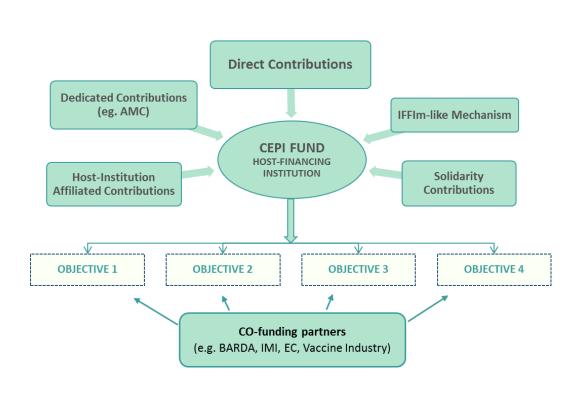
CEPI raising USD 1 billion to support a five year portfolio strategy of two to three prioritized pathogens and two to three phase IIa vaccine candidate targets per prioritized pathogen by the end of this period.

#### Financing Model

CEPI seeks multi-year donor commitments to satisfy its core financing needs, as well as targets through a multi-source financing model.

#### Four key financing principles

- 1. Broad-based financing
- 2. Long term, predictable financing
- 3. Complementary and new financing
- 4. Fit-for purpose financing



### Next steps



#### **Start Up Phase**

#### **Formalize Commitments**

**Launch Partnership** 



Scientific Advisory Committee Meeting, 20 and 21 October



Joint Coordination Group Meeting, 18 November 2016



Secure initial commitments of CEPI participation and contribution

2<sup>nd</sup> Interim Board Meeting in India 16 December 2016



Lead funders to launch CEPI and call for additional participation at the Annual Meeting at Davos, January 2017