#### Pandemic Influenza Preparedness Framework

Sharing of influenza viruses & access to vaccines and other benefits

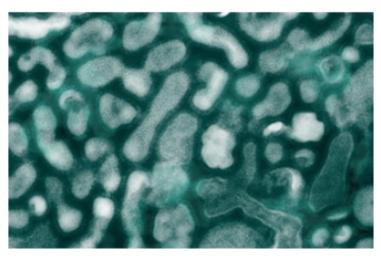
#### Presentation to World Influenza Conference 8 September 2018



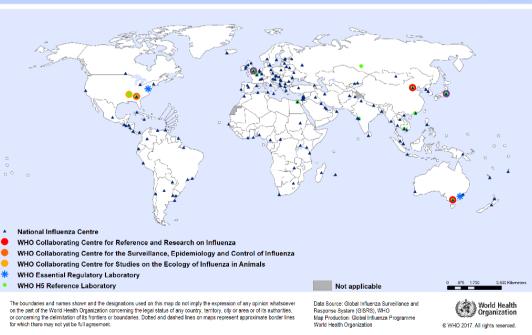


### Influenza

- → Unique, highly contagious, infectious disease
- → Among few known pandemic-prone pathogens
  - Pandemic is question of 'when' not 'if
- → Global surveillance mechanism coordinated by WHO: Global Influenza Surveillance and Response System (GISRS)



Courtesy of WHO Collaborating Center for Studies on the Ecology of Influenza in Animals, Memphis, USA



WHO Global Influenza Surveillance and Response System

20 December 201

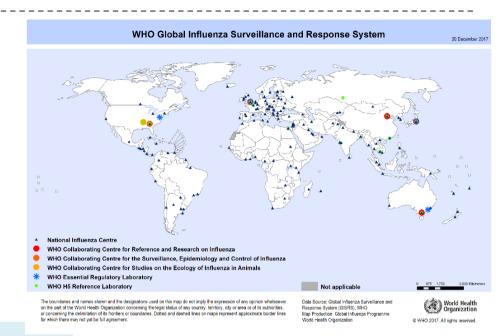


#### **GISRS – Global Virus Sharing for Public Health Security**

- → 66 years of excellence on the frontlines of influenza virus detection, sharing and risk assessment
  - 114 Member States supporting 153 laboratories
  - ➤ ~ US\$ 56.5

#### GISRS in 2017 alone .....

- ~ 3,500,000 specimens tested;
- ~ 40,000 virus specimens shared
- with CCs from more than 110 countries;
- ~ 10,000 viruses characterized by CCs
- ~ 45 candidate vaccine viruses developed
- 138 countries report surveillance findings to FluNet;
- 145 countries demonstrated high quality capacity of virus detection







### **PIP Framework Background**

- $\rightarrow$  'Bird Flu' Re-emergence of A(H5N1) in SE Asia ~ 2003
  - Viruses sent into GISRS (GISN) for characterization, risk assessment and vaccine virus development
- → Candidate vaccines developed → limited availability of vaccines at high price









#### **Global Discussions on Equitable Access to Vaccines**

- → 2007-2011: WHO Member States negotiate an innovative approach to increasing public health security:
  - Share viruses with pandemic potential with WHO/GISRS
  - Ensure all countries are prepared for pandemic response
  - Establish mechanisms to ensure greater equity of access to pandemic vaccines and other response products



- PIP Framework brings together Member States, GISRS, industry, CSOs, NGOs, philanthropic organizations, other stakeholders, & WHO
- Key Guiding
  Principles:
  - Equity
  - Transparency
  - Partnership



## **Benefit Sharing: Two key mechanisms (1)**

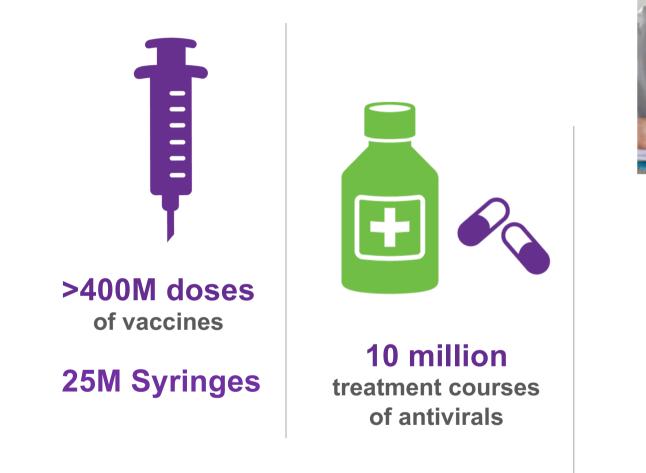
### 1) Standard Material Transfer Agreement 2

- Legally binding contracts with manufacturers to provide to WHO, real-time access to pandemic products needed at the time of next pandemic
- SMTA2s establish a predictable and structured access by WHO to specific pandemic response products (e.g. vaccines, antivirals, diagnostics) for countries in need
- Manufacturers select benefit sharing options based on their nature and capacities





### Key achievements – SMTA 2







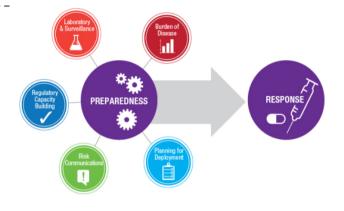
#### 250,000 diagnostic kits



## **Benefit Sharing: Two key mechanisms (2)**

## 2) Partnership Contribution (PC)

- → US\$ 28M/year to WHO from 'influenza vaccine, diagnostic and pharmaceutical manufacturers *that use GISRS*'
- → Enables WHO to strengthen key pandemic preparedness and response capacities
- → WHO brings together political and technical expertise; aims to ensure long term sustainability and success
- → To date, nearly US\$ 145 million received by WHO





## High Level Results 2014-2017

- Five areas of work in 72 countries & globally
- ~400k per country
- \$64 million implemented
- 86% of 21 indicator targets met or exceeded





#### L&S

- 42 countries routinely share seasonal influenza viruses with GISRS.
- 36 countries share influenza epidemiological data with WHO through 'FluID.'
- 22 countries share influenza virological data with WHO through 'FluNET.'

#### BOD

- → New global influenza mortality estimate published in 2017
  - → 10/19 target countries completed BOD; 6 published results

#### REG



Burden of

Disease

→ 48 countries have adopted an approach to facilitate timely approval of pandemic influenza products during an emergency

#### DEP



→ 'PIPDeploy' launched in 2017: First global simulation portal for pandemic influenza vaccine deployment



Online knowledge-transfer platform 'OpenWHO' launched in 2017, with 8 influenza-related courses. Over 7,500 registered users from 191 countries.



## PIP Framework & Genetic Sequence Data (GSD)

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- → PIPF covers GSD but GSD is not part of the definition of PIP Biological Materials
  - Therefore, GSD is not covered by benefit sharing or other PIP Framework systems (e.g. virus traceability mechanism)
- → Member States request PIP Advisory Group (AG) to provide guidance to Director-General on the best process to handle GSD under the Framework (section 5.2.4)



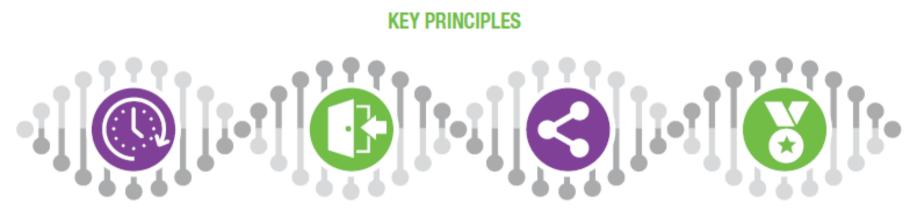
AG work started in 2013, guided by 3 questions:

- 1) What should be the benefits from IVPP GSD?
- 2) At which point should benefit sharing be triggered? (access? use? commercialization of product? other?)
- 3) How can data sharing and benefit sharing be synergistic and mutually supportive?



### **Emerging principles**

#### Four key principles that integrate access and benefit-sharing objectives



Rapid sharing of high-quality GSD for timely risk assessment & rapid response Sustainable, public access to IVPP GSD Fair and equitable sharing of benefits arising from sharing of GSD Acknowledgement of data providers & active collaboration between data providers & users





- →3-pillared oversight mechanism
  - World Health Assembly: oversees implementation
  - Director-General: promotes implementation
  - 18 member Advisory Group (AG):
    - Advises Director-General on the use of the Partnership Contribution
    - Monitors & assesses implementation of Framework
    - Interacts with Industry & other stakeholders



### **Governance & Review (2)**

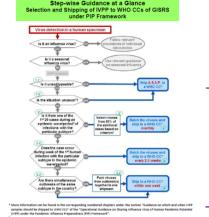


- → Full Framework review in 2016 and submission of Report to WHA 70 (May2017)
- → Report includes key question:
  - Should scope of PIP Framework be expanded or not to include: a) seasonal viruses; b) GSD in definition of PIP Biological Materials
- → WHA 70 considered Review report and requested DG to conduct comprehensive Analysis of that key question



### **Next Steps**

- → Virus Sharing: Continue to implement guidance on sharing IVPP
- → Benefit sharing:
  - SMTA2: Continue to conclude SMTA2
  - PC: Continue to strengthen preparedness through implementation of capacity building activities in 72 countries
- → Governance:
  - Publish draft Analysis in mid-September
  - Consult with MS & stakeholders 15-16 Oct
  - Revise Analysis, as necessary, & submit to EB144 (Jan 2019) for discussion and forwarding to WHA 72 (May 2019)



World Health Organization

emic Influenza ess (PIP) Framework



Partnership Contribution (PC) Preparedness High-Level Implementation Plan II 2018-2023







## **Acknowledgements & Thanks**

- → Member States
- → Global Influenza Surveillance & Response System (GISRS)
- → Partnership Contributors, civil society, other partners & stakeholders
- → WHO HQ, Regional and Country office colleagues

http://www.who.int/influenza/pip/en/

# Thank You!