

# Unmanned Aerial Systems and Supply Chain Management

TechNet 15, Cascais, Portugal  
16 October 2017

Judith Sherman, UNICEF





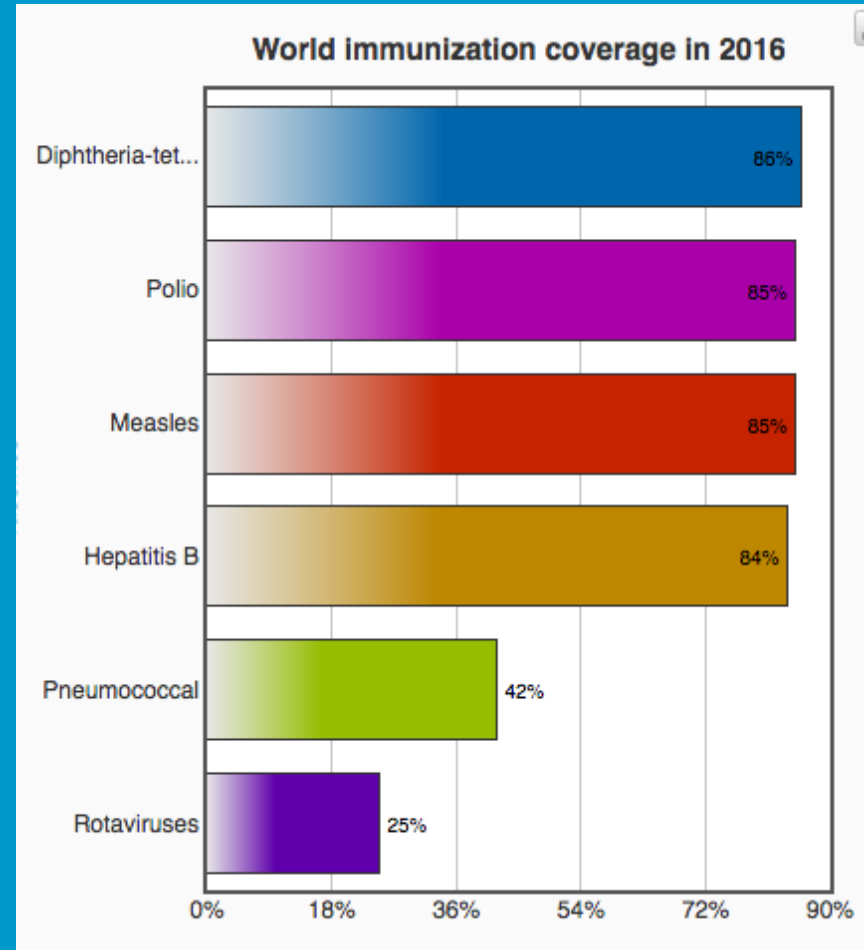


# A drone snapshot

- Do drones fit into health supply chain management systems?
- What should governments, donors, implementing partners consider before implementing drone activities?
- Can the global health community influence this leapfrog technology?

# Immunization Coverage

- Est. 2-3 million deaths averted per year
- Global vaccination coverage stalled at 86%
- An additional estimated 1.2 million deaths could be averted *with increased coverage*



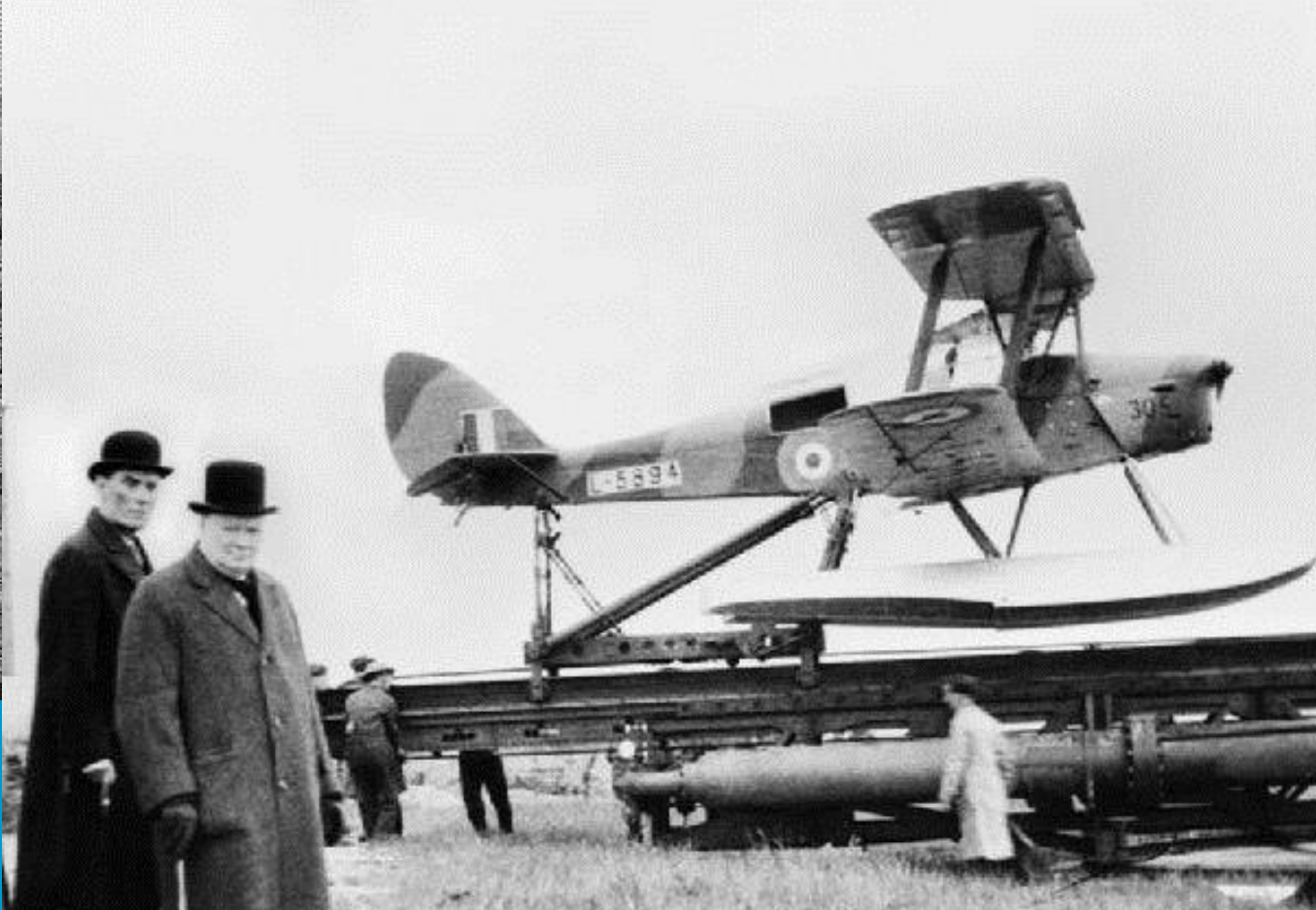
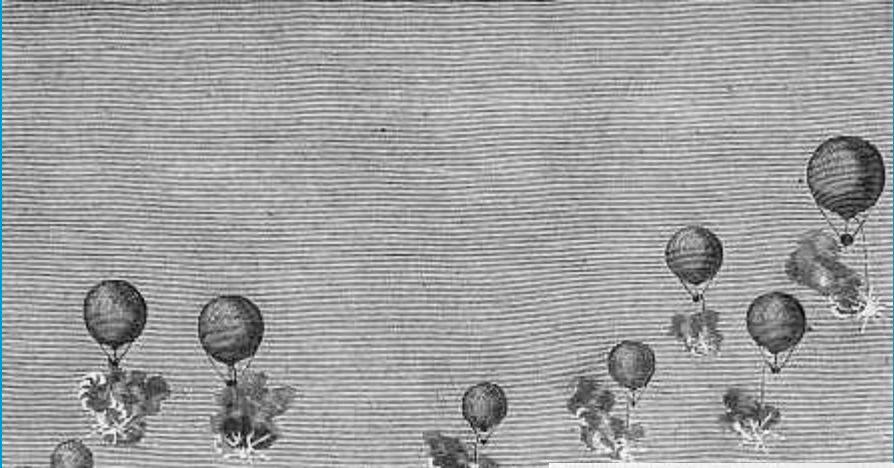


# 'Internet for All' Google Balloon & Facebook Drone











**amazon**  
*Prime Air*

## UNMANNED AERIAL VEHICLES IN LOGISTICS

A DHL perspective on Implications and  
use cases for the logistics industry

2014



Powered by DHL Trend Research





Malawi: Feasibility and cost of using drones to transport laboratory samples for early infant diagnosis of HIV (2016)

# 2017: Cargo Drones in Health

- Laboratory samples
- Vaccines
- Essential meds
- Contraceptives
- On-demand of unpredictable items:
  - Safe blood for transfusion
  - Anti-venom serum
  - Rabies shots



# Drones – Do they contribute to your objectives?

- Availability
- Quality
- Efficiency
- Cost-effectiveness



# Drone – Is your country ready?

## Feasibility:

- Drone technology

## Eco-system:

- National support and regulations
- National expertise
- Infrastructure
- Community engagement



# To learn more:

Sala XII – 11:00

- A screening tool for countries to use to:
  - consider drones for their context
  - prioritize potential use cases
  - estimate relative costs and potential benefits
- Donors, NGOs, academics, manufacturers & others discussing the development, advancement & application of drones in health supply chain systems



# Vanuatu – vaccine delivery challenge





*“The fastest growth opportunity (for drones) comes from businesses and civil governments...we expect they'll spend \$13 billion on drones between now and 2020.”*

- Goldman Sachs, 2017

# Building an Efficient, Cost-Effective Business Model

Donor-funded public health commodity procurement ~ \$4.2 billion (2015)

- Can development partners and governments align and leverage resources to increase impact of using drones?
- Can the health sector partner with the drone industry for cost-effective solutions that save lives?



# Thank you

