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VACCINATION SUPPORT

Contributing to the Global Good

Tim Mitchell

Founder and CEO of
Iqarus



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Chief Medical Advisor



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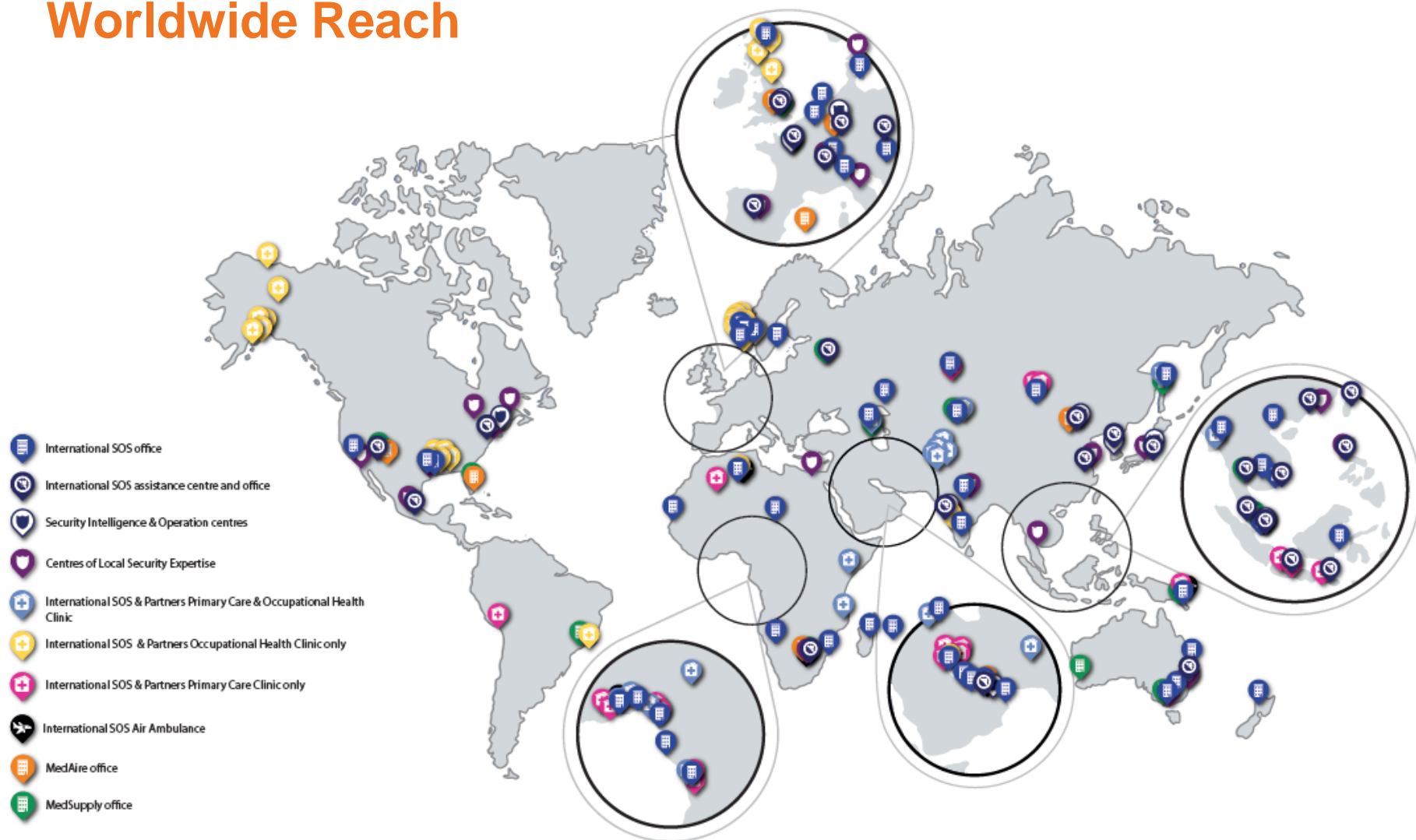
Group Medical Advisor
International SOS Group



Johnny Blair-Tidewell

Government Services
Director

Worldwide Reach



Iqarus and International SOS – Unique Global Reach



2021

FACTS AND FIGURES

OVER

11,500

MULTIDISCIPLINARY STAFF WORLDWIDE

IQARUS DELIVERS THE HIGHEST STANDARDS OF CLINICAL CARE IN COMPLEX AND DEMANDING OPERATING ENVIRONMENTS

IN PARTNERSHIP WITH INTERNATIONAL SOS, WE ARE THE WORLD'S LARGEST REMOTE MEDICAL HEALTHCARE COMPANY, FIELDING OVER 5 MILLION REQUESTS FOR ASSISTANCE EACH YEAR

We provide integrated medical support to Governments, International Organizations and Multinationals

90,000 accredited providers in our global assistance network

Hospitals, physicians, security specialists, ambulances travel assistance and more.



89%

of the fortune global 100

64%

of fortune global 500 companies

5,400 Healthcare Professionals

24/7

OPERATIONS SUPPORT CENTRE, PROVIDING CONTINUAL MEDICAL AND OPERATIONS SUPPORT TO OUR CLIENTS AND DEPLOYED CLINICIANS

104 LANGUAGES

MEDICAL TRAINING. WE DELIVER MEDICAL TRAINING COURSES TO **14,000 STUDENTS** A YEAR

900

remote site projects with

300

offshore installations

STRENGTHENING HEALTHCARE SYSTEMS FROM THE POINT OF INJURY OR ILLNESS THROUGH TO **DEFINITIVE CARE** – **PREHOSPITAL CARE, RESUSCITATION, SURGERY, LABORATORY, IMAGING, SUPPLY CHAIN, PRIMARY HEALTHCARE, AEROMEDICAL EVACUATION, CLINICAL GOVERNANCE**

OVER **12,000** AEROMEDICAL EVACUATIONS GLOBALLY EACH YEAR

26

ASSISTANCE CENTRES COVERING THE GLOBE

A Global Footprint

We have experience of providing comprehensive medical support across the countries listed below:



Afghanistan	Egypt	Mali	Somalia
Algeria	Fiji	Mongolia	South Africa
Angola	France	Mozambique	South Korea
Australia	Gabon	Myanmar	Sudan
Azerbaijan	Ghana	Namibia	Thailand
Bangladesh	Guinea	Nauru	Turkey
Brazil	Guyana	New Caledonia	Turkmenistan
Brunei Darussalam	India	New Zealand	United Arab Emirates
Cambodia	Indonesia	Niger	United Kingdom
Cameroon	Iraq	Nigeria	United States
Canada	Kazakhstan	Norway	Ukraine
Central African Republic	Kosovo	Oman	Uzbekistan
Chad	Kyrgyzstan	Papua New Guinea	Venezuela
China	Laos	Peru	Vietnam
Republic of the Congo	Lebanon	Philippines	Yemen
Democratic Republic of Congo	Madagascar	Qatar	
Djibouti	Malaysia	Singapore	

Global Vaccination Programmes

We have experience supporting the UN System globally with complex vaccination programmes:

- **UN WFP:**
 - Afghanistan
 - Chad
 - South Sudan
 - Liberia
 - Mali
 - Niger
 - Sierra Leone
 - Somalia
 - DRC
 - Kenya
 - Myanmar
 - Congo
 - Senegal
 - Uganda
- **UNICEF:**
 - Afghanistan



1M vaccines delivered per year with no losses throughout in-country supply / cold chain

Stakeholder Engagement



ADB Briefing Agenda

- Brief introduction to the Group's capabilities
- The challenges of vaccine deployment
- Case studies:
 - Afghanistan – a targeted intervention
 - Papua New Guinea – a comprehensive national plan
 - French Ministry of Foreign Affairs – global reach
- Q&A
- Discussion Points

COVID – Immediate Response Capabilities

Principles:

• Protection

- Inform – Advisories, data collection, analysis, interpretation – timely and accurate communication
- Train and prepare – increase staff skills, to operate effectively in the COVID environment
- Design and implement infection control regimes, at all scales
- Implement baseline and serial testing regimes – Point of Care and Real Time PCR

• Treatment

- Deliver Quarantine and Isolation strategies, outbreak management and Treatment Facilities – Design, Build, Staff, Equip and Operate, at all scales

• Evacuations

- Ground Ambulance
- Aeromedical Evacuations
- Dedicated aircraft

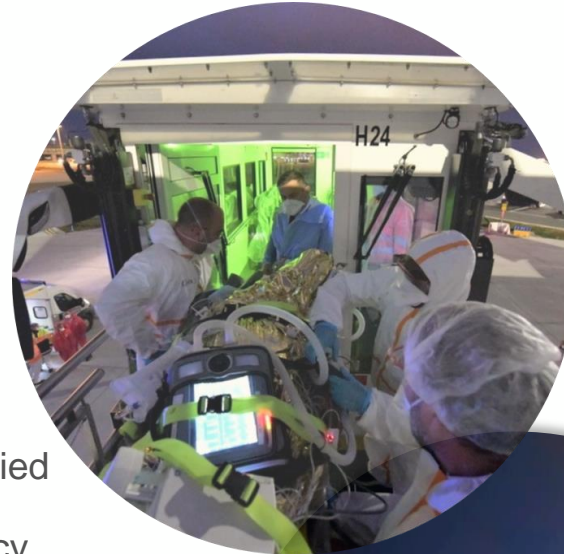
Key features of our solutions:

- Rapidly deployable and ready now
- Complete – staff, infrastructure, equipment, medications, consumables, procedures, governance
- Adaptable and scalable – surging staff and other capabilities to meet changing requirements
- Reinforcing existing medical systems, at all scales of effort (individual staff to fully Turnkey facilities)
- Seamless integration into existing management and medical systems
- Delivered and governed to common and recognized medical standards and policies (WHO, US CDC)



WORLD'S FIRST MULTIPLE PATIENT COVID-19 INTENSIVE CARE EVACUATION

- 4 March 2021.
- Route: La Réunion island to Paris.
- 4 ICU patients & 20 medical staffs onboard.
- 1 ton of technical material & 40,000L of oxygen tailored for aviation security rules
- Commissioned by the French Ministry of Health & carried out in collaboration with the SAMU, the emergency medical services in France, the Regional Health Agency, Air Austral and Aéroport de Paris.



WORLD'S FIRST MULTIPLE PATIENT COVID-19 INTENSIVE CARE EVACUATION



“ *Transporting one or two seriously ill patients is part of everyday life. This particular situation was highly unique and even more complex, with all four patients in an unconscious and intubated-ventilated condition. Medical evacuations, particularly during the pandemic, are complex but this was even more so, requiring an even greater level of care and coordination. We were honoured to be called on for our expertise and proud to be part of the team that was able to transport the patients safely.* ”

- Dr Arnaud Derossi, Regional Medical Director, International SOS

A Comprehensive Range of Capabilities



ANALYSE & PLAN

Understand the supported nation's plan, capacity and capabilities. Identify systemic risks and weaknesses



INFORM , ADVISE & ASSURE

Develop and deliver tailored communication campaigns and assist with development of national vaccination strategies



VACCINATE, TEST, MONITOR & CERTIFY

Augment national vaccination capacity and extend geographic and demographic reach. Provide rapidly deployable capability to set conditions for successful national vaccination deployment



POST-PROGRAMME

Monitor success of national plans and support longer-term vaccination and health system strengthening

UNDERPINNED BY END-TO-END LOGISTICS



SOURCING AND
PROCUREMENT OF VACCINES*
AND COVID-19 TESTING
EQUIPMENT



COLD CHAIN AND
LOGISTICS MANAGEMENT



PROCUREMENT OF
TESTING AND VACCINE-
ASSOCIATED SUPPLIES



ARRANGEMENT /
PROCUREMENT OF
INFRASTRUCTURE
(MAKESHIFT CLINICS)

The long-term response

Context:

- Our capabilities sit within the Gavi Access to COVID Tools (ACT) Accelerator framework and WHO national planning guidance:
 - Strengthen immunization
 - Improve health services and systems
 - Multisectoral collaboration
- **The Vaccines Pillar** – also known as COVAX . It aims to rapidly scale up the delivery of at least 2 billion doses of vaccines in 2021 to cover initial high risk target groups, while accelerating research and development agenda to address new and emerging risks due to COVID variants.
- **The Health Systems Connector** (HSC) works across the three product Pillars and aims to rapidly identify and address country-specific health systems bottlenecks to ensure readiness and enable rapid scale up and delivery of COVID tools.



Vaccine supply-chain risk areas

VACCINE DELIVERY & CONTROL

- Cold chain equipment
- Consumables
- Balancing deliveries and demand
- Procedures to reduce wastage
- Recovery & destruction of empty phials

COUNTRY SUPPLY CHAIN

- Customs & approval process to release vaccines for usage
- Cold-chain and shelf-life
- Pilferage
- Hoarding, buffering & overstocking – multiple levels of distribution

DATA

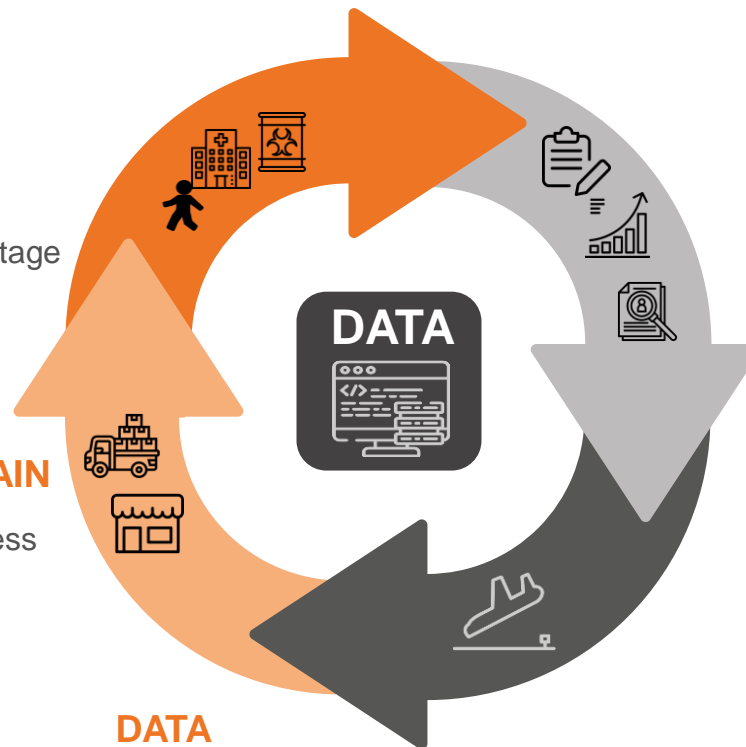
- Data collection
- Data integration
- Analytics

IMMUNISATION PLANNING

- Balancing demand and supply
- Bottom-up design, top-down direction, bottom-up data
- Using data effectively

INTERNATIONAL SHIPPING

- Airfreight capacity
- Temperature and handling
- Customs delays
- Visibility
- Contingency



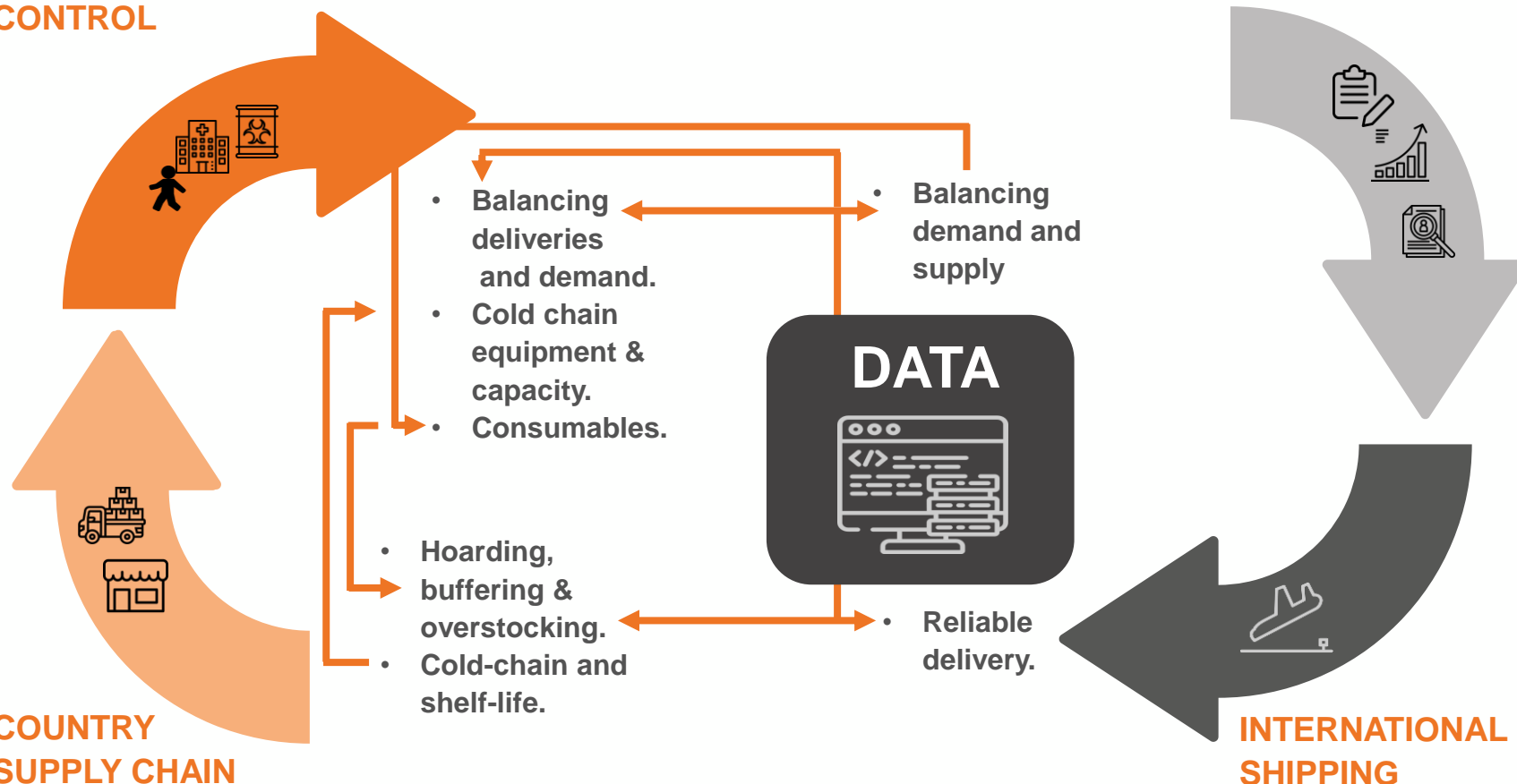
Risks Are Systemic and Inter-related

VACCINE
DELIVERY &
CONTROL

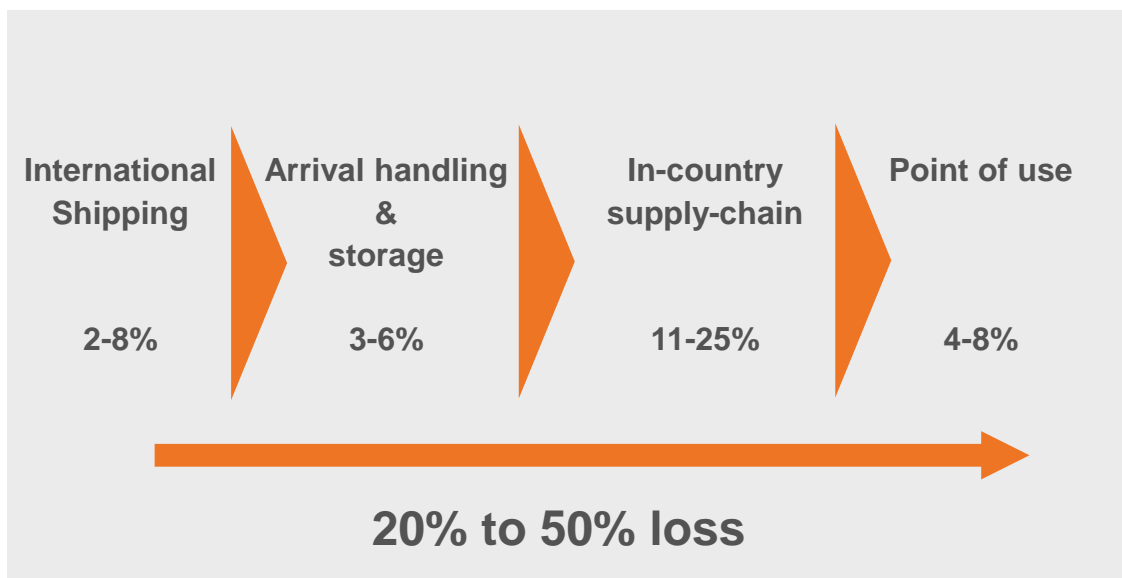
IMMUNISATION
PLANNING

COUNTRY
SUPPLY CHAIN

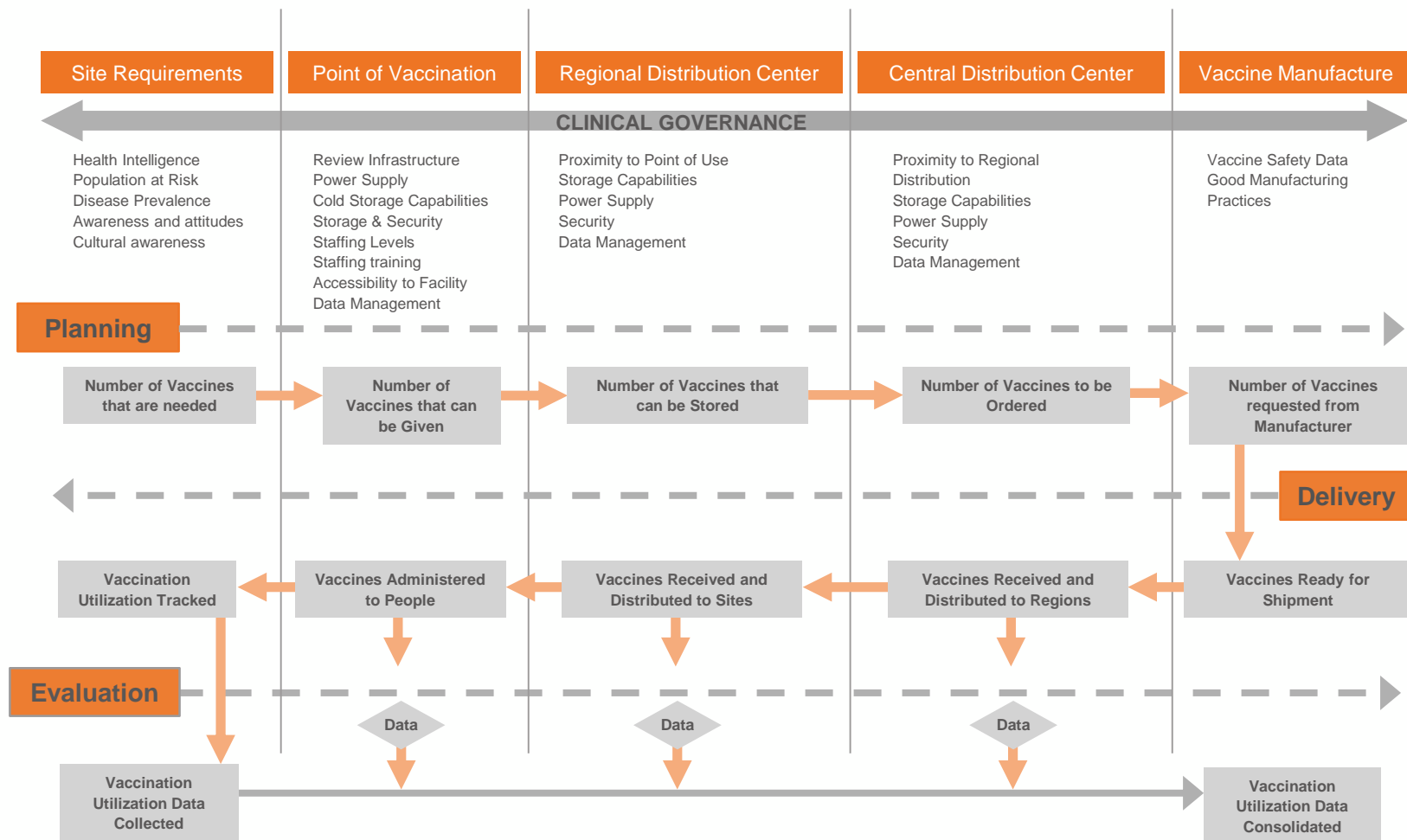
INTERNATIONAL
SHIPPING



Global Average Vaccine Wastage



Data from WHO reports, WHO wastage calculator, University of St Gallen



Vaccine supply-chain risk areas

VACCINE DELIVERY & WASTE

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COUNTRY SUPPLY CHAIN

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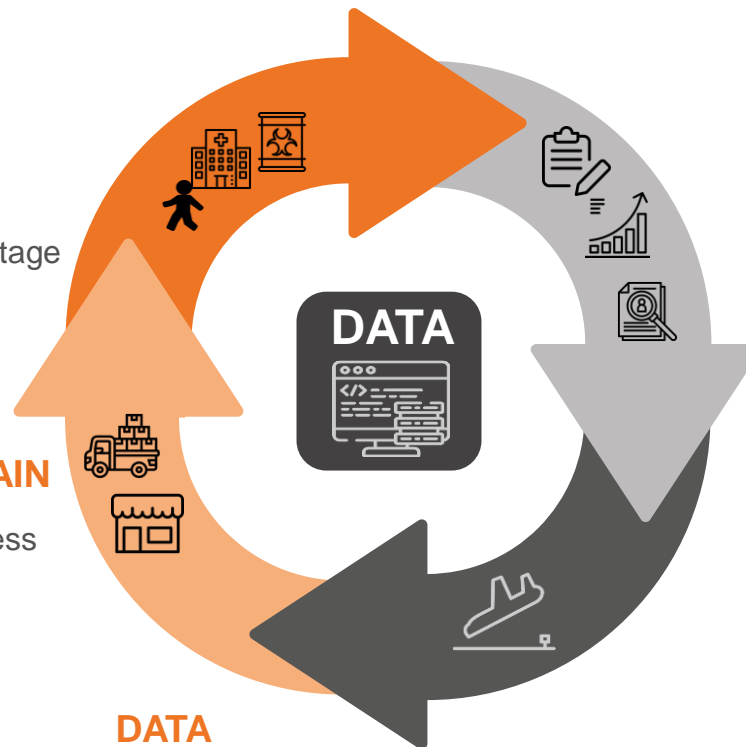
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IMMUNISATION PLANNING

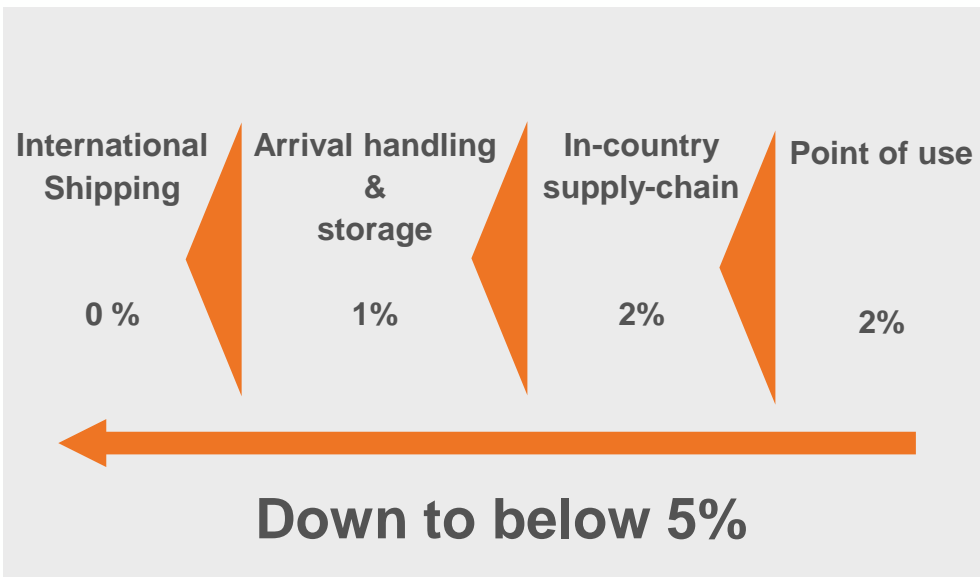
- Balancing demand and supply
- Setting the programme for success
- Using data effectively

INTERNATIONAL SHIPPING

- Airfreight capacity
- Temperature and handling
- Customs delays
- Visibility
- Contingency



Driving Down Vaccine Wastage



- Demand pull supply-chain management



- Designed from delivery back, end-to-end



- Collaborating with the local authorities



- Data enabled end-to-end



- Cold-chain solutions for each stage



- Customised and flexible



- Proven and assured

Integrating Clinical and Medical Expertise, Cold Chain Technology and Strategic Enablers

Key Enabling Activities

- Information and education
 - National
 - Regional
 - Demographically Focused
 - Disadvantaged/under-represented Groups
- Knowledge Transfer
 - Logistic Enablers
 - Medical Staff
 - Administrators

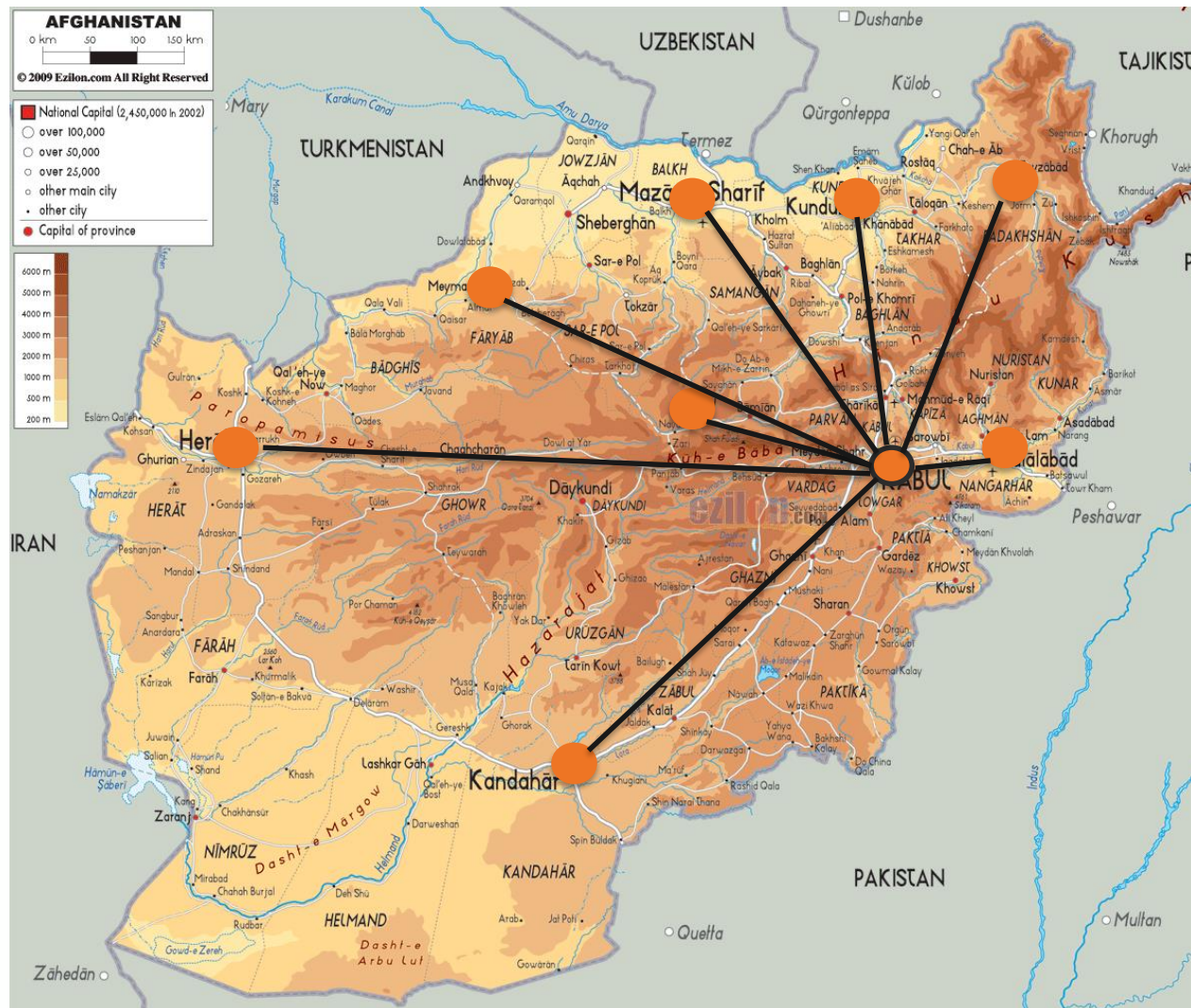


CASE STUDIES



United Nations
World Food Programme

Case Study - Afghanistan



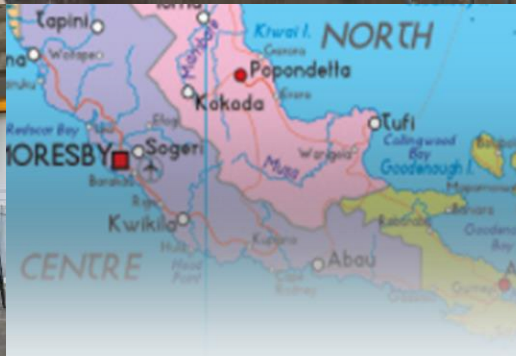
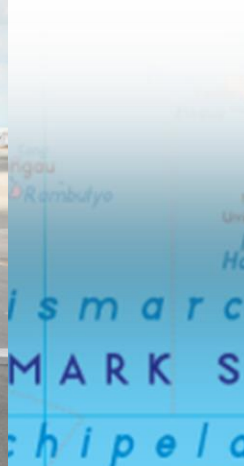
Programme to vaccinate WFP Staff:

- Multiple vaccines procured and received through central cold-chain storage facility in Kabul
- Hub and spoke distribution system with vaccines delivered to:
 - Kabul
 - Bamian
 - Faizabad
 - Herat
 - Jalalabad
 - Kandahar
 - Kunduz
 - Maymana
 - Mazar-i-Sharif
- Vaccinator teams of doctor, nurse (administration) and nurse (vaccinator) deployed by air.
- Zero vaccine wastage through cold-chain excursion and less than 1% at point of use.

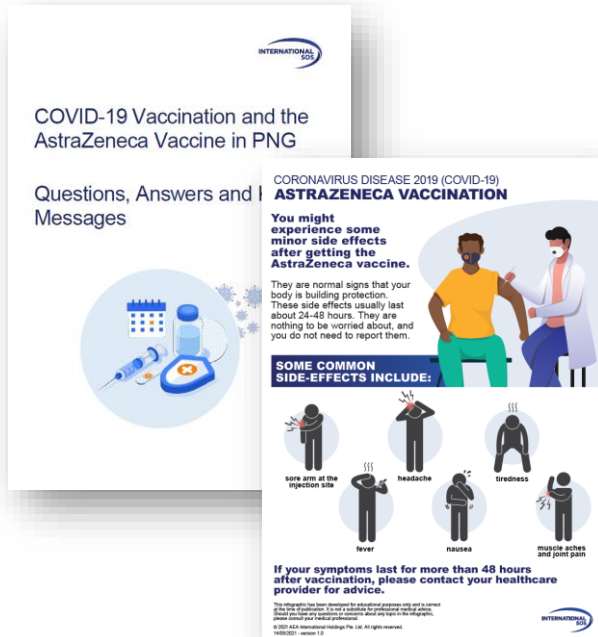
COVID 19 Vaccination Programmes – Papua New Guinea

- International SOS Australia contracted by the Department of Foreign Affairs and Trade to support COVID-19 Vaccination on Papua New Guinea.
- Initially focused on vaccination for the Health Care Workers.
- Dedicated vaccination facility.
- 17,500 doses administered to date.
- Complements Papua New Guinea National Department of Health COVAX facility.





Education and Hesitancy



Cardinal Sir John Ribat take vaccine social distance limit mass size

<https://vimeo.com/533841447>

Papua New Guinea's most senior Catholic Leader, Cardinal Sir John Ribat has joined thousands of others to receive the Covid-19 vaccine. Cardinal Ribat shares his fears for our nation if we do not take the right steps to protect ourselves. Cardinal Ribat expresses his gratitude for the support that has come from our neighbours in providing vaccines for PNG's frontline workers. He appeals to us to approach this crisis with our faith behind us, but to do our part.

Vaccine Roll Out



<https://vimeo.com/manage/videos/533841131>

International SOS Nurse and vaccine centre Operations Manager takes us on a tour of the vaccination centre in Port Moresby



<https://vimeo.com/547312551>

This video features the International SOS team as well as showcasing the vaccine process, it talks about not listening to social media and interviews health care professionals(St Johns), teachers and hospitality workers on why they are getting the vaccine. It also has time lapse footage at the vaccination centre in POM.



COVID-19 VACCINATION DELIVERY TO FRENCH CITIZENS & FRENCH STATE EMPLOYEES LIVING ABROAD

International SOS has been chosen as the COVID-19 vaccination programme provider for The French Ministry of Foreign Affairs (Ministère de l'Europe et des Affaires Étrangères).

This 12-month programme will see our medical staff administer vaccinations to up to 220,000 French citizens living abroad in more than 100 countries. We will provide in-country logistics support and vaccine transportation and storage.

We will deploy a digital platform for appointment scheduling, monitoring and reporting, and a dedicated vaccination information hotline.

50% of the vaccination delivery is expected to be in Africa.

WORLDWIDE REACH. HUMAN TOUCH.

