



17th TechNet Conference

Panama City, Panama | October 16-19, 2023

Immunization Programmes
That Leave No One Behind

CONFERENCE GUIDE



Gavi Alliance immunization Supply Chain Steering Committee



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Welcome

Since it was founded in 1989, the TechNet platform has always been a close collaboration between WHO and UNICEF. Therefore, on behalf of both WHO and UNICEF we are delighted to welcome you to Panama City for the 17th edition of the TechNet Conference.

A unique collaboration

But this is not a Conference for two agencies. Ever since the 14th TechNet Conference took place in Bangkok, Thailand in 2015, the [Gavi immunization Supply Chain Strategy](#) Steering Committee (iSC2) has played a central role in shaping the agenda of the Conference.

In late 2022, each organisation on the Steering Committee nominated a representative on the TechNet Conference Planning Committee, which over the course of 2023 has worked tirelessly to ensure the agenda covers the most essential and timely topics in immunization. From its outset, therefore, this event has represented a unique collaboration.



A global network

TechNet is a global network of immunization professionals committed to strengthening immunization services by building relationships, sharing knowledge, coordinating activities, and aligning priorities and goals. Our goal is to improve immunization services by bringing together immunization professionals at **every level**, in **every country**, and from **every sector**. Today, we are proud to welcome the most diverse range of participants assembled at any TechNet Conference: more than 70 organisations, from more than 70 countries, with participants ranging from national governments, academia and the private sector to consultants, donors, non-government organisations, and inter-governmental organisations.

This is a conference with a [long and venerable heritage](#). The first TechNet Consultation was held in Nicosia, Cyprus in 1990. Since then, 15 other conferences have taken place, each hosted in a different WHO Region. The [most recent face-to-face Conference](#) took place in Cascais, Portugal in October 2017. Due to COVID-19, the following TechNet Conference took place as an online event in October 2020. The theme of the conference was: "Shaping a resilient and adaptive immunisation program".

Leaving no one behind

The theme of this year's conference is **Immunization Programmes That Leave No One Behind**. This includes a deliberate reference to the title of the [Immunization Agenda 2030: A global strategy to leave no one behind](#). Indeed, the entire agenda of this TechNet Conference has been presented according to the Immunization Agenda 2030 conceptual framework of seven Strategic Priorities and four Core Principles.

Each Strategic Priority in the Immunization Agenda 2030 has defined goals and objectives and key areas of focus. Each of us can contribute to achieve the interrelated strategic priorities to realize these goals and to ensure that immunization fully contributes to stronger primary health care and attainment of universal health coverage. During the next four days, we encourage you to reflect on how each element of our agenda (plenary, breakout, poster, café) contributes towards the achievement of one or more Strategic Priority, and how it exemplifies one or more of the Core Principles embodied in the Immunization Agenda 2030.

Many people have asked whether this TechNet Conference is concerned solely with immunization supply chain and logistics. The answer is No. It is certainly true that, as with previous TechNet Conferences, this Conference focuses on topics related to both vaccine supply chain and immunization service delivery. However, many other topics related to the Immunization Agenda 2030 will also be presented. In fact, to meet the needs of national immunization programmes (as well as other stakeholders, such as academia, private sector, NGOs and IGOs), it is necessary to address a broader range of topics beyond immunization supply chain. But by including such supply chain topics within this broader context of strengthening both service delivery and programme management, we hope that our agenda will address many more of the most pressing challenges facing immunization programmes today.



Figure 2. Participants at the 15th TechNet Conference in Cascais, Portugal in October 2017. Photo: WHO



Figure 3. The seven Strategic Priorities and four Core Principles of the Immunization Agenda 2030

Thanks to all

More people than can be mentioned here have generously dedicated their time to support the planning, organization, and funding of this Conference. In the 'Acknowledgements' chapter on page 43, we try to list the key people and groups who have made this event possible – even at the risk of forgetting some. Particular thanks are due to the authors, presenters, chairs, rapporteurs, focal points, interpreters, and technicians responsible for formulating and delivering each part of our agenda. This Conference is built upon your insights and expertise.

We hope you enjoy the conference and look forward to interacting with you throughout the week. The agenda is absolutely packed and to help you get the most out of the conference, this guide is your key resource.

Each day, conference events will be organized into:

- » Plenary sessions for all participants
- » Sets of three breakout sessions occurring at the same time, where participants can choose which to attend
- » Other events, including the Innovations Café, Poster Gallery, TechNet Clinic, and Manufacturers Marketplace

More details on each session can be found in the following chapters of this guide.

But beyond the Conference, please don't forget to take advantage of the many [beautiful and fascinating sights](#) our wonderful host country has to offer.

Dan Brigden, WHO headquarters

On behalf of the TechNet Conference Planning Committee



Languages and interpretation

All plenary sessions at the TechNet Conference will be held in English. All except two breakouts will also be in English (two will be in Spanish). Interpretation for all plenary sessions, as well as for all breakout sessions taking place in the main auditorium, will be provided in: French, Spanish, and Portuguese.

Watch online

All plenary presentations, including the opening and closing ceremonies, will be streamed live on YouTube. Once presentations have finished, they can be played back at any point.

www.youtube.com/user/TechNet21



Do you tweet?

Join the conference conversation on X (Twitter). Use our hashtag for all conference-related tweets.

#TechNetConference2023

www.twitter.com/TechNet21Mod

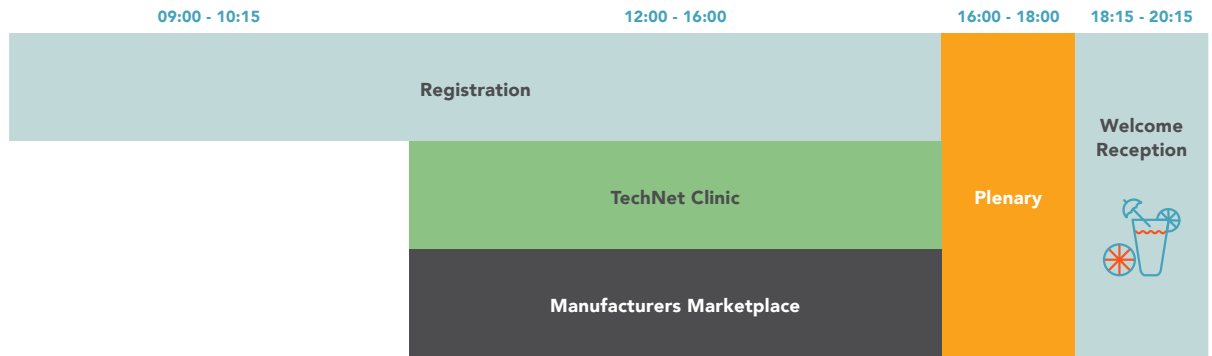
Other events

Complementing the plenary and breakout sessions, the conference will host many other events.

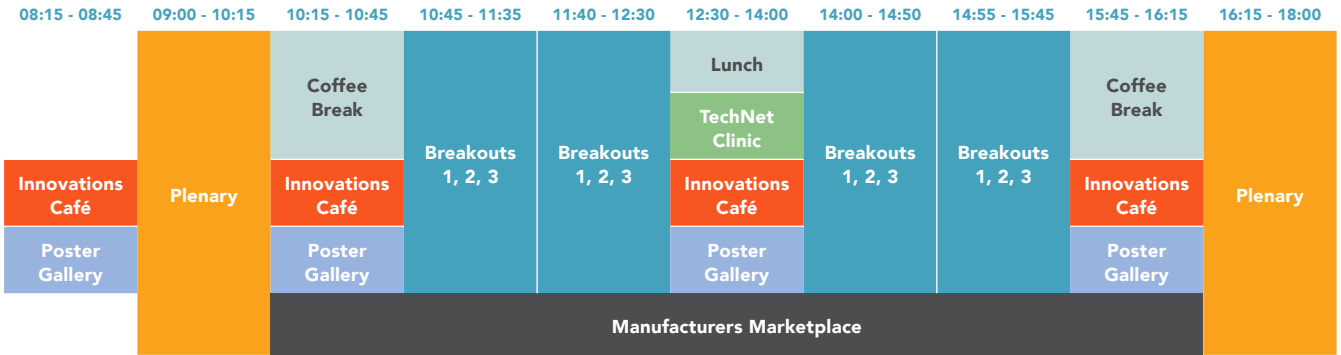
Innovations Café	<p>A space for showcasing innovative tools, technologies, and systems for strengthening immunization programmes and supply chains. During these 30-minute sessions, the developers of each innovation will be present to demonstrate and discuss them with participants.</p> <p>For information on when each session will take place, please refer to the day-by-day agenda. More detailed information, including session descriptions and presenter details, can be found on page 26.</p>
Poster Gallery	<p>A gallery displaying more than 40 posters on a wide variety of immunization-related topics, including research, lessons-learned and evidence of pilot projects in countries. The Poster Gallery will be open whenever plenary sessions are not taking place.</p> <p>At designated times, certain posters will be presented by their authors. For information on when each poster will be presented, please refer to the day-by-day agenda. More detailed information, including presenter details, can be found on page 30.</p>
Manufacturers Marketplace	<p>For manufacturers of WHO PQS-prequalified products to showcase their latest products, enabling participants to interact directly with companies, innovators, and their products.</p> <p>The Manufacturers Marketplace will be open whenever plenary sessions are not taking place. A full list of participating manufacturers can be found on page 36.</p>
TechNet Clinic	<p>Learn how to get the most out of the TechNet-21 website and find out what solutions we can offer to promote your work. Please stop by if you do not yet have a TechNet account, if you need help with our website, if you have any feedback, or want to discuss ideas for new projects and partnerships.</p> <p>The TechNet Clinic will be open during the Conference Registration and also at other times throughout the week. Exact times can be found in the day-by-day agenda or on page 39.</p>
Video Gallery	<p>A selection of immunization-related videos shared by participating organisations will be played on a large flatscreen TV in the Poster Gallery. Videos will play on a loop each day and a list of all videos will be displayed alongside the TV. Bring popcorn!</p>
Resource Library	<p>This area will enable organizations represented at the conference to share hardcopies of recent immunization-related publications with participants. Please drop by and pick up anything that interests you.</p>

At a glance

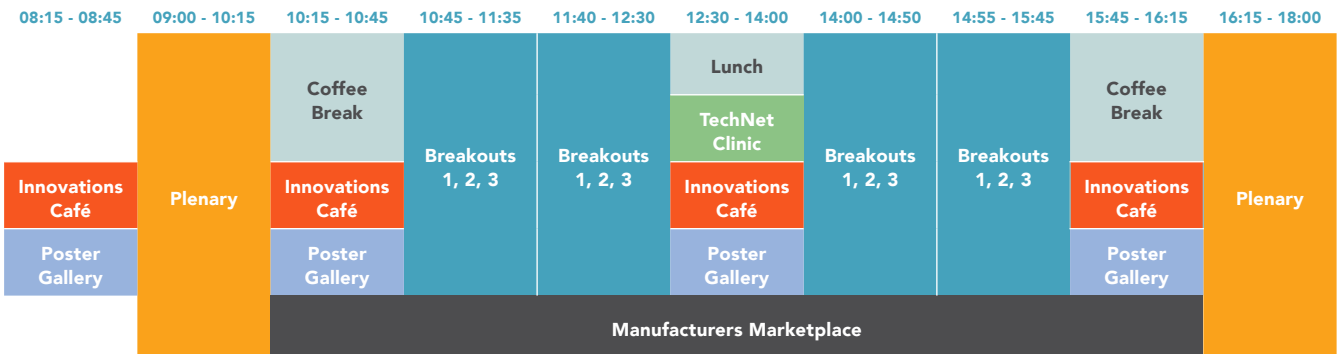
Monday



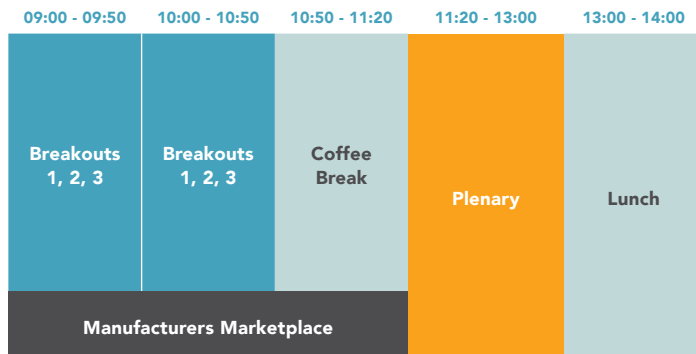
Tuesday



Wednesday

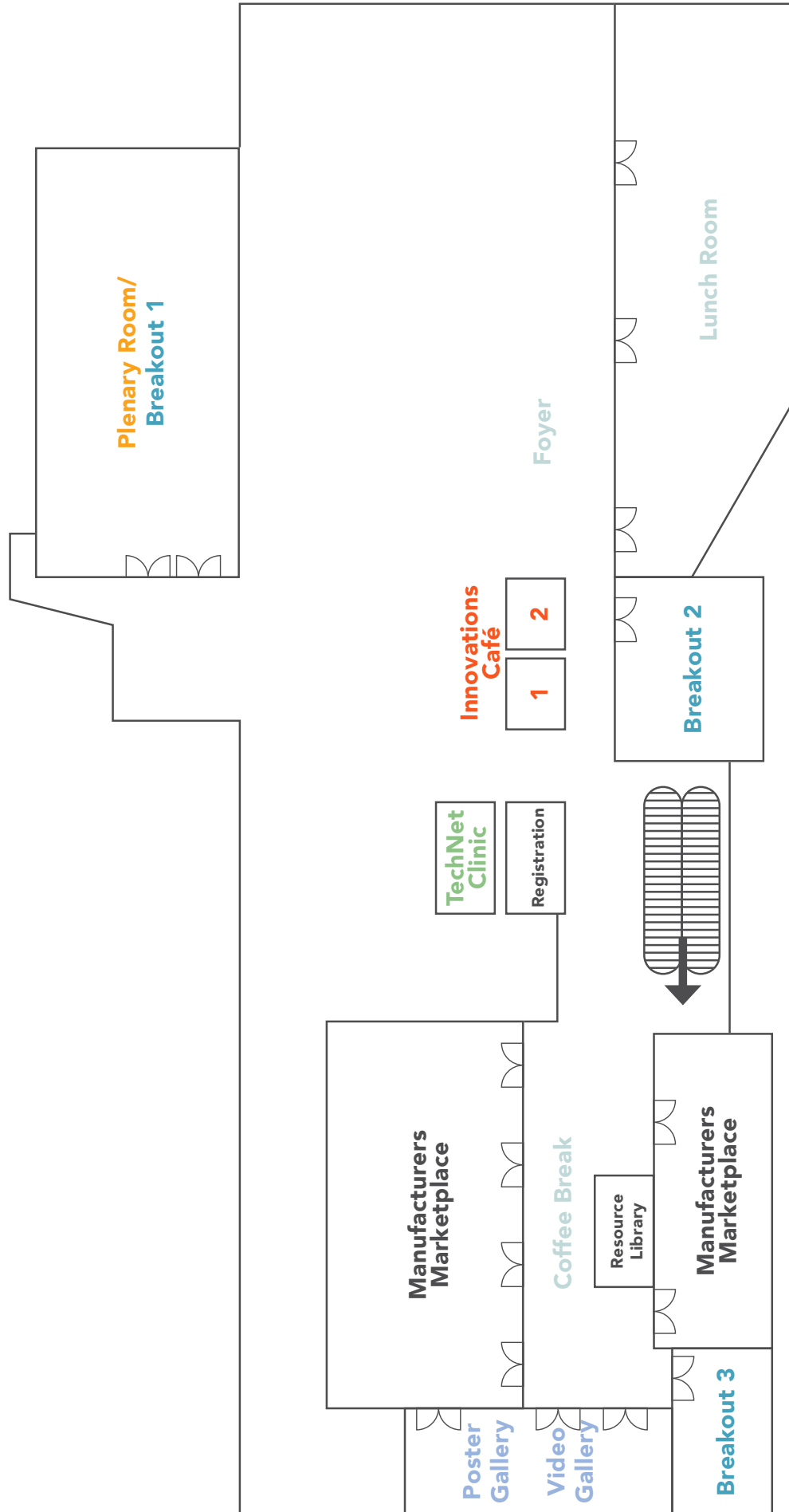


Thursday



Floorplan

All sessions will take place on level M-1:





Monday, October 16

09:00-16:00 Registration

Mezzanine foyer All participants need to register at the TechNet Conference Registration Desk between 09:00 and 16:00 to receive their conference badge and guide.

12:00-16:00 TechNet Clinic

Mezzanine foyer Please stop by if you do not yet have a TechNet account, if you need help using the TechNet-21 website, if you have any feedback on our website, or want to discuss ideas for new projects and partnerships.

12:00-16:00 Manufacturers Marketplace

16:00-18:00 Plenary: Immunization Programs That Leave No One Behind Chair: Souleymane Kone (WHO headquarters)

Welcome

Souleymane Kone (WHO headquarters)

Opening remarks

Ana Rivière-Cinnamond (PAHO Representative, Panama)
Jarbas Barbosa (Director, PAHO)
Kate O'Brien (IVB Director, WHO headquarters)
Garry Conille (Director, UNICEF LACRO)
TBC (Panama Ministry of Health)

Chair: Nora Rodriguez (PAHO)
Ann Lindstrand (EPI Coordinator, WHO headquarters)
Olamide Folorunso (Health Specialist, UNICEF Programme Group)
Karan Sagar (Head, Comprehensive Vaccine Management, Gavi)
Kelly Hamblin (Senior Program Officer, Immunization, Bill & Melinda Gates Foundation)
Daniel Salas (Executive Manager, Comprehensive Immunization Program, PAHO)



Immunization Programs That Leave No One Behind

Plenary Room

Perspectives from global partners on the challenge, progress, and opportunity of implementing the IA2030 global strategy to Leave No One Behind.



Environmentally-sustainable interventions for strengthening PHC infrastructure and mitigating carbon emissions

Ranjit Dhiman (UNICEF Programme Group)

Production of vaccines, cold chain and supplies, transportation and delivering of the vaccines to the last mile has a strong carbon footprint! What is our carbon footprint to deliver immunization program globally? What should we do to reduce and mitigate the carbon footprint? UNICEF investigates these questions, join us to learn more!

Making the most out of the TechNet Conference

Dan Brigden (WHO headquarters)

Everything you need to know about the TechNet Conference in less than 15 minutes

18:15-20:15 Welcome Reception

Pool Join us and raise a glass to celebrate the opening of the 17th TechNet Conference!



Tuesday, October 17

08:15-08:45

Innovations Café

Mezzanine
foyer

IC1: **Getting started with EVM: What is it? How does it work? I have a question...**

IC2: **Equipment inventory and gap analysis tool (IGA)**

08:15-08:45

Poster Gallery

Poster
Gallery

Monovalent type 2 OPV (mOPV2) management in the field: interventions and lessons learned

Moving from identify to reach: using the journey to health model to understand the behavioral and social drivers of undervaccination in Kathmandu, Nepal

On the verge of RSV disease prevention in early life

09:00-10:15

Plenary: Gender & zero-dose populations

Chair: Ashvin Ashok (CHAI)



Why gender matters for equity in immunization

Ann Lindstrand (WHO headquarters)

Gender-related barriers and inequality hinder vaccination. To improve immunization rates, we must consider gender roles and norms in service planning. Gender affects both demand (health-seeking behavior) and supply (health services). By using gender-aware strategies, we can enhance immunization programs and broaden coverage for everyone.

Plenary
Room



Zero-dose populations: Who are they and how do we reach them?

Chair: Ashvin Ashok (CHAI)
Meghana Sreevatsava (Jhpiego)
Elena Herrera (JSI)
Pijush Kanti Khan (International Institute of Health Management Research)
Nchinjoh Sangwe Clovis (CHAI)
Olasoji Fasogbon (African Field Epidemiology Network)
Sulaiman Etamasor (National Primary Health Care Development Agency)

This session presents strategies for identifying and reaching zero-dose children and enhancing immunization coverage. The presentations will examine gender and demand-side barriers to improve equity in immunization and present approaches used to identify and reach zero dose children in Cameroon and Nigeria.

10:15-16:15

Manufacturers Marketplace

10:15-10:45

Coffee-Break

10:15-10:45

Innovations Café

Mezzanine
foyer

IC1: **Thrive360 - Stock management strengthening**

IC2: **Innovative tools to facilitate use of vaccines outside the cold chain**



Tuesday, October 17

10:15-10:45

Poster Gallery

Poster Gallery

Strengthening Immunization Supply Chain Management in Iraq: The Integrated Immunization Supply Chain Data Management System

Development of strategies for reaching zero dose communities with vaccination services in Kenya, South Africa and Uganda

Update on VIPS work related to Controlled Temperature Chain (CTC)

10:45-11:35

Breakouts

Breakout 1 / Plenary room



Integrated services for greater reach

Mod: Ashvin Ashok (CHAI)
Bhriгу Kapuria (UNICEF Lebanon)
Chizoba Wonodi (Johns Hopkins University)

This session discusses the potential of integrated services to address equity challenges. The session will present results from a study in Madagascar which identified integration of immunization and nutrition services as crucial, particularly in regions with existing food security programs. In addition, the session will also discuss the case of Lebanon which successfully deployed an integrated strategy to effectively demonstrate that while the child and family is being reached for immunization, the same platform can be a gateway to connect with other primary healthcare services and beyond.

Breakout 2



Reaching hard-to-reach/remote populations - applying lessons from COVID and routine immunization

Mod: Mariam Zameer (VillageReach)
Ugo Uwadiako Enebeli (JSI)
Vicky Maiyo (JSI)
Delroy Pyle (Guyana Ministry of Health)

This session will highlight learnings from engaging communities for improving COVID-19 vaccinations for inmates in Nigeria and older persons in Kenya as well as strengthening routine immunizations for beach populations in Kenya and the role of data and supply chain in Guyana on reaching vulnerable populations.

Breakout 3



Community health workers & person-centered care: Key to increasing coverage and equity

Mod: Rebecca Alban (VillageReach)
Gaspar Come (VillageReach)
Tosin Ajayi (AI)
Laure-Anais Zultak (CHAI)
Jessica Posner (JSI)

What is a CHWs role in promoting service demand, uptake, and quality? This panel will highlight the important role that Community Health Workers (CHWs) play in supporting immunization service delivery. Commentary and programmatic examples from VillageReach, CHAI, JSI and video-based commentary from a Malawi-based CHW will share perspectives from the field.

Tuesday, October 17

11:40-12:30

Breakouts



Promoting equity through supply chain design

Breakout 1 /
Plenary room

Explore the multifaceted aspects of promoting equity through supply chain design. Delve into gender equity and social inclusion in supply chains, identifying and addressing supply chain equity barriers, increasing access through service network extension; And gain insights from a case study on human-centered design to improve access and service delivery in Ghana.

Mod: Raj Sachdev (CHAI)
Lisa Oot (JSI)
Nicole Danfakha (JSI)
Mariam Zameer (VillageReach)
Emily Gibson (VillageReach)



Human-centered design and behavioural interventions to improve coverage

Breakout 2

This session will showcase three abstracts highlighting the power of human-centered design (HCD) and behavioural interventions to improve coverage. In Kenya, PATH's collaboration with the National Vaccines and Immunization Program addressed vaccine demand, considering religious and cultural factors. In Malawi, a successful strategy, co-created with communities, substantially increased COVID-19 vaccine uptake. Lastly, Madagascar's session will demonstrate how HCD was applied to address urban immunization challenges through collaboration with stakeholders.

Mod: Tosin Ajayi (CHAI)
Charles Matemba (VillageReach)
Daniel Ali (Johns Hopkins University)



HPV vaccine implementation and revitalisation

Breakout 3

The presentation outlines the Global Strategy for the Elimination of Cervical Cancer and the goal of achieving over 90% coverage in 9 to 14-year-old population. It reports on vaccination progress in the Americas and TAG's recommendation for a one-dose HPV series in the Region, as well as available support from Gavi.

Mod: Svetlana Stefanet (UNICEF ECARO)
Joanie Robertson (PATH)
Oya Zeren Afsar (UNICEF Programme Group)
Angela Capcelea (UNICEF Moldova)
Daniel Salas (WHO PAHO)

12:30-14:00

Lunch Break

13:15-13:45

Innovations Café

IC1: Rethinking capacity-building for the supply chain health workforce: AFRiSC app is the solution

Mezzanine
foyer

IC2: Monitoring supply chain continuous improvement plans - Implementation lessons



Tuesday, October 17

13:15-13:45

Poster Gallery

Poster
Gallery

Systematic investment in solar energy for vaccination program and primary healthcare in times of crisis: Experience from Lebanon

Data Triangulation to Identify Zero Dose Children in Mozambique

Lessons learned from developing, testing and scaling innovative interventions to increase routine immunization (RI) coverage and equity in Kenya and Uganda

13:15-13:45

TechNet Clinic

Mezzanine
foyer

Come speak to us about the TechNet-21 community and website, or share your ideas for new projects and partnerships

14:00-14:50

Breakouts

Breakout 1 /
Plenary room

Service delivery integration

This session will focus on findings from interventions implemented in Nigeria and Cameroon to assess or demonstrate the impact of service delivery integration at the primary health care level. The service delivery integration focused on specific primary health care services, especially immunization and delivery services.

Mod: Pat Lennon (PATH)
Salisu Sulaiman (CHAI)
Tijjani Hussaini (Nigeria Ministry of Health)
Nadege Edwige Nnang Amougou (CHAI)

Breakout 2



Continuous improvement planning - The Journey and the Destination

While the EVM initiative was conceptualized as a critical continuous improvement approach to strengthening immunization supply chain programmes, there's a disproportionate focus on the assessment phase-manifesting in delayed or no cIPs development, lack of monitoring of improvement activities' implementation cIPs and very limited visibility on progress. The session will introduce initiatives from countries, regional, and global levels to ensure that countries effectively develop cIPs in a timely fashion, monitor implementation and position to contribute better to health and development outcomes.

Mod: Olamide Folorunso (UNICEF Programme Group)
Landry Kaucley (Benin Ministry of Health)
Monjurul Islam (Bangladesh Ministry of Health)
Jahid Hossen Shahed (UNICEF)
Ishaku Yoms (Nigeria Ministry of Health)
Ahmad Isah Muhammad (UNICEF Nigeria)
Ridwan Gustiana (UNICEF EAPRO)
Claude Mangobo (WHO AFRO)

Breakout 3



Innovative access

Panel and Q&A focused on innovative strategies to address immunization access barriers. Strategies include leveraging community health workers as vaccinators; direct delivery of routine immunization vaccines and other PHC commodities (DRIVE); strategies for vaccination in security compromised settings; "market storms"; and leveraging community role models and community vaccination sessions.

Mod: Kim Couri (VillageReach)
Emily Gibson (VillageReach)
Yakubu Joel Cherima (JSI)
Gopal Krishna Soni (JSI)
Olamide Folorunso (UNICEF Programme Group)



Tuesday, October 17

14:55-15:45

Breakouts

Breakout 1 /
Plenary room



Online training: approaches and pitfalls

Mod: Manjari Quintanar-Solares (PATH)
Elizabeth Kohlway (Sabin Vaccine Institute)
Jhilmil Bahl (WHO headquarters)
Cecilia de Bustos (UNICEF Guatemala)
Vivian Salomon Pineda (UNICEF Guatemala)
Sanjay Kapur (JSI)

Speakers from WHO, Sabin Vaccine Institute, UNICEF Guatemala, and JSI India will provide an overview of online training solutions that were created for self- and peer-to-peer learning on immunization topics. They will share lessons learned from the development and implementation of those solutions in Guatemala, India and globally.

Breakout 2



Leveraging micro-array patch (MAP) technology for vaccine delivery

Mod: Anna-Lea Kahn (WHO headquarters)
Courtney Jarrahan (PATH)
Mercy Mvundura (PATH)
Jennifer Foster (PATH)
Shan Hsu (PATH)

Microarray patches are a promising new innovation for administering vaccines to the skin which hold potential to transform delivery of vaccines. This session will discuss recent advances in MAP development, the potential cost impact of MAPs for immunization programs, and usability data from healthcare workers and community health workers in Kenya.

Breakout 3



Innovative approaches to improve birthdose coverage

Mod: Joanie Robertson (PATH)
Tosin Ajayi (CHAI)
Nadege Edwige Nnang Amougou (CHAI)
Brooke Farrenkopf (Johns Hopkins University)

Many children do not receive birth dose vaccines, even when born in health facilities. Research from IVAC and CHAI in Cameroon, Madagascar, and Nigeria uncovers some of the barriers and challenges of this critical touchpoint in the continuum of care, and they highlight possible solutions emerging directly from health workers.

15:45-16:15

Coffee-Break

15:45-16:15

Innovations Café

Mezzanine
foyer

IC1: Institutionalizing capacity building for national and sub-national supply chain staff - Lessons from Nigeria (EMPOWER)

15:45-16:15

Poster Gallery

Poster
Gallery

Resilience in Haiti to implement immunization activities

Building Better Immunity: A Life Course Approach to Healthy Longevity

UNICEF's commodity range as well as the market and procurement trends and influencing areas



Tuesday, October 17

16:15-18:00

Plenary: Vaccine wastage & workforce development

Chair: Souleymane Kone (WHO headquarters)

Plenary room



What do we know about global vaccine wastage rates?

The World Health Organization reports over 50% vaccine wastage around the world (WHO, 2005) but there is insufficient empirical evidence to confirm or refute this claim. We will present the initial findings from two separate studies on this topic. The first measures global vaccine wastage rates using JRF and MI4A data, while the second measures nOPV2 campaign wastage rates.

Chair: Souleymane Kone (WHO headquarters)
Paul Colrain (consultant)
Ahmet Afsar (UNICEF Programme Group)

Plenary room



Workforce Development

Presenters from CHAI, UNICEF/People that Deliver, VillageReach, and WHO share lessons learned from initiatives focused on developing the workforce. Approaches include utilizing adult training methods, garnering government recognition, improving supply chain educational pathways for youth, fostering collaboration across organizations and sectors, improving remuneration and other recognition, and instigating better diagnostics for training needs.

Chair: Joanie Robertson (PATH)
Jhilmil Bahl (WHO headquarters)
Dominique Zwinkels (UNICEF Supply Division)
Kikelomo Lambo (CHAI)
Rebecca Alban (VillageReach)
Kevin Etter (UNICEF Programme Group)



The Power of the Network

Find out how the new TechNet platform, as well as other online immunization communities, can benefit and support your work.

Dan Brigden (WHO headquarters)



Wednesday, October 18

08:15-08:45

Innovations Café

Mezzanine
foyer

IC1: Health information systems to reach under-immunized populations

IC2: Decentralized data with Varo: Gather, aggregate and use cold chain temperature data right away

08:15-08:45

Poster Gallery

Poster
Gallery

Use and performance of actively cooled refrigerators as implemented by ALIMA for transport and outreach in Niger

Assessment of the supply chain and program value of a combined blow-fill-seal container and dropper for novel oral poliovirus vaccines

09:00-10:15

Plenary: Cold chain equipment

Chair: Wendy Prosser (JSI)



WHO PQS: First line of defense for the immunization supply chain

Isaac Gobina (WHO headquarters)
Paul Mallins (WHO headquarters)

The WHO Performance, Quality and Safety (PQS) Unit based in the WHO HQ in Geneva prequalifies products and devices so that member states and UN purchasing agencies are assured of their suitability for use in immunization programs. The PQS process also encourages a wide range of manufacturers to apply for prequalification so that a competitive marketplace develops.



Keeping your cold chain cold: A focus on temperature monitoring

Chair: Wendy Prosser (JSI)
Mtoroki Majaliwa (Tanzania Ministry of Health)
Amy Lo N'diaye (Senegal Ministry of Health)
Souleymane Sawadogo (Parsyl Inc)
Yasmin Chandani (inSupply Health)
Brian Pal (Global Health Labs)

Remote temperature monitoring is bringing new insight into cold chain performance. Learn about RTM deployment in Tanzania, Kenya and Senegal, and the practical application of how to use the data for improved decision making. You will also learn about the future of temperature monitoring and how we collectively can optimize temperature data.

10:15-16:15

Manufacturers Marketplace

10:15-10:45

Coffee-Break

10:15-10:45

Innovations Café

Mezzanine
foyer

IC1: Skill-building with the Immunization Academy app: Case study on an innovative approach for healthcare workers in Nigeria

IC2: Democratized & Contextualized Immunization Supply Chain Expertise: IAPHL Country Chapters



Wednesday, October 18

10:15-10:45

Poster Gallery

Poster
Gallery

Cameroon's experience with implementation of the cool water pack policy for optimal management of vaccine temperature during transportation

Readiness Assessment of Private Health Facilities in Identification and Reaching of Zero dose and Under-immunized children in Nigeria

By Boat and By Camel: The role of partnerships to support COVID-19 vaccination for last mile and marginalized populations in India

10:45-11:35

Breakouts

Breakout 1 /
Plenary room

Cold chain challenges and solutions (Spanish)

Mod: Nora Rodriguez (WHO PAHO)
Alejandro Rene Ortega Amador (Nicaragua Ministry of Health)
Claudia Liliana Sosa Mesa (Colombia Ministry of Health)
Lena López Ambrón (Cuba Ministry of Health)
Alina Pérez Carreras (WHO Cuba)

The requirements for storing vaccines at ULT, such as Covid-19 vaccines, the cold chain becomes a fundamental piece to guarantee the quality of vaccines. The use of technology and information systems, storage capacity was optimized. The introduction of all Covid-19 vaccines strengthened the management operations of the cold chain and supply chain, including the routine program.

Breakout 2



Forecasting and demand - Nigeria and Mozambique case studies

Mod: Laila Akhlaghi (JSI)
Kikelomo Lambo (CHAI)

Methods and challenges for forecasting routine and COVID-19 vaccines for both the public and private sectors in low and middle-income countries will be shared through two case study examples.

Breakout 3



Thinking outside the cold box: Finding solutions to your cold chain maintenance

Mod: Nicole Danfakha (JSI)
Christine Lanyero (Uganda Ministry of Health)
Ernest Some (Kenya Ministry of Health)
Paul Sagyiri (Uganda Ministry of Health)
Wendy Prosser (JSI)
Nicole Danfakha (JSI)
Julia Guerette (VillageReach)
Joanie Robertson (PATH)
Tahir Buhari (eHealth Africa)

Participants are invited to get creative and contribute their ideas for solutions to making cold chain maintenance systems more effective and reliable. Learn about insights from research and practical experiences with maintenance from Uganda, Nigeria and Niger, and then be part of a "co-creation workshop" to brainstorm potential solutions for your maintenance system.



Wednesday, October 18

11:40-12:30 Breakouts

Breakout 1 / Plenary room

Innovations for immunization: Solarization, freeze prevention and lifecycle assessment

Learn about advances in technology in multiple areas: freeze prevention cold boxes for vaccines from a study in Nepal; experience using cool water packs in Cameroon; and discuss the environmental impact and lifecycle assessments of syringes to inform procurement and product choices.

Mod: Isaac Gobina (WHO headquarters)
 Steven Diesburg (PATH)
 Sandeep Kumar (PATH)
 Nadege Edwige Nnang Amougou (CHAI)
 Surendra Uranw (BP Koirala Institute of Health Sciences)

Breakout 2

Strengthening routine immunization in the wake of Covid-19

This session will cover research findings and interventions being implemented across 7 countries to strengthen routine immunization systems in response to the backslide in immunization coverage resulting from the COVID-19 pandemic. The discussion will focus on topics including improved outreach services and community-centered approaches to research and implementation.

Mod: Kim Couri (VillageReach)
 Dung Chi Tham (PATH)
 Jocelyn Powelson (VillageReach)
 Mike Chisema (Malawi Ministry of Health)
 Tosin Ajayi (CHAI)
 Laure-Anais Zultak (CHAI)

Breakout 3

Controlled temperature chain (CTC) - New opportunities and reducing risk

Speakers from Gavi, PATH and WHO will present an update on controlled temperature chain, an innovative approach prioritized by the Vaccine Innovation Prioritisation Strategy (VIPS). We will share case studies from country experience with CTC, update the prequalified vaccines available, and engage the audience in an interactive game to demonstrate the CTC experience.

Mod: Joanie Robertson (PATH)
 Anna-Lea Kahn (WHO headquarters)
 Sharvani Saraf (Gavi)

12:30-14:00 Lunch Break

13:15-13:45 Innovations Café

Mezzanine foyer

IC1: Connected learning to accelerate local impact at global scale: Year 1 of the Movement for Immunization Agenda 2030 (IA2030)

IC2: Learn more about the Boost Community – a global network of immunization professionals tackling complex challenges together



Wednesday, October 18

13:15-13:45

Poster Gallery

Four recent KAP studies re-confirm the value of VVM in EPI and suggest mHealth features

Poster
Gallery

Real-time data monitoring in MR-Polio-Vitamin A Supplementary Campaign

Fostering Health Systems Resilience Post-Pandemic Through Supply Chain Data Integration in Nigeria

13:15-13:45

TechNet Clinic

Mezzanine
foyer

Come speak to us about the TechNet-21 community and website, or share your ideas for new projects and partnerships

14:00-14:50

Breakouts



Tools and platforms that support selection, access, and service strategies

Breakout 1 /
Plenary room

During this session two WHO country-led approaches developed as part of the Country-led Assessment for Prioritisation on Immunisation (CAPACITI) project will be presented that are grounded in shared principles. Firstly, the CAPACITI Innovation Framework for priority setting of vaccine innovations. Secondly, the CAPACITI decision-support tool for priority setting of available vaccines.

Mod: Zabihullah Kamran (UNICEF Programme Group)
Maarten Jansen (WHO headquarters)
Dijana Spaseniska (WHO headquarters)



How we deliver vaccines into arms - Syringes, devices, packaging considerations

Breakout 2

This session will include three presentations on immunization product design and suitability, and their program, supply chain, and market challenges. Products to be discussed as multi-dose vials, prefilled and non-prefilled devices, and Autodisable (AD) syringes during COVID-19.

Mod: Laila Akhlaghi (JSI)
Heather Ferguson (Linksbridge SPC)
Maggie Archbold (Sassenach)
Manjari Quintanar-Solares (PATH)
Elizabeth Griffin (PATH)



Vaccines up in the air - Transport by drone and traditional air freight

Breakout 3

In the wake of the Covid-19 pandemic, supply chains responsiveness and resiliency became a priority in global health. To that end, health supply chains must leverage all tools in the box to ensuring timely access to life-saving medicines and healthcare. Vaccine air transportation, both using traditional air transport and uncrewed aircraft systems, has expanded in regions with reduced accessibility, improving and shortening availability and access of the vaccines in these regions. During this session, we will look at the impact of Air-travel logistics using traditional and uncrewed aircrafts on access and availability of vaccines.

Mod: Modibo Dicko (The Balanzan Institute)
Jeniffer Adungosi (CHAI)
Olivier Defawe (VillageReach)



Wednesday, October 18

14:55-15:45 Breakouts

Breakout 1 / Plenary room

Local manufacturing

This session will include PAHO Revolving Fund discussing the importance of sustainable business cases for local production of immunization-related supplies given financial constraints; a second presentation will share an example of a conceptual and quantitative model of vaccine manufacturing ecosystems that support stakeholders at regional and national levels with making decisions for sustainable and equitable vaccine manufacturing.

Mod: Thomas Sorensen (UNICEF Supply Division)
Murat Hakan Ozturk (WHO PAHO)
Nico Vandaele (KU Leuven)
Access-To-Medicines Research Centre)

Breakout 2

Managing your cold chain inventory: Innovations to make your life easier

New tools for managing CCE inventory have been rolled out in multiple countries. Learn about the experiences and lessons learned from Guatemala with the "Inventory System and Cold Chain Capacity"; from Uganda with the Cold Chain Inventory System; and from the WHO European region using the web platform Inventory Gap Analysis.

Mod: Matt Morio (PATH)
Cecilia de Bustos (UNICEF Guatemala)
Vivian Salomon Pineda (UNICEF Guatemala)
Erida Nelaj (WHO EURO)
Christine Lanyero (MOH Uganda)
Irakli Gabisonia (Georgia Ministry of Health)

Breakout 3

Procurement and longevity of cold-chain equipment

Learn about new innovations related to CCE management. Lao PDR managed a country-led service bundle implementation of CCEOP. Nexleaf will provide insight into barriers impacting the performance of the CCE from using temperature data. And finally, think differently about CCE management through a lease-type delivery model for long-term sustainability and CCE functionality.

Mod: Wendy Prosser (JSI)
Mohammed Pangani (Nexleaf Analytics)
Phonepaseuth Ounaphom (Laos Ministry of Health)

15:45-16:15 Coffee-Break

15:45-16:15 Innovations Café

Mezzanine foyer

IC1: Vaccine wastage rate calculator and Vaccination session planner mobile applications

IC2: Vaccine delivery technologies on the horizon

15:45-16:15 Poster Gallery

Poster Gallery

Enablers and Barriers to Rotavirus Vaccine Coverage in Assam - A qualitative study

Integrating primary health care services to improve routine immunization coverage - A case study of Kenya's HPV uptake

Implementation of GIS-Based Digital Microplan in Bangladesh



Wednesday, October 18

16:15-18:00

Plenary: Electronic immunization registries, Private-sector engagement, and vaccine financing

Chair: Joanie Robertson (PATH)



Electronic immunization registries: Progress in the Region of the Americas

Marcela Contreras (WHO PAHO)

The aim is to present the progress of the Region of the Americas regarding the implementation of Electronic Immunization Registries. The EIR are computerized nominal records and are part of the immunization information system; the vaccination of each person is identified and facilitate active follow-up, supporting the planning of those who should be vaccinated and monitoring the non-attendees.



Private-sector engagement: leveraging partnership to increase reach

Chair: Joanie Robertson (PATH)
Christopher Morgan (Jhpiego)

Evidence on good practice in engaging private providers (for-profit and non-profit) to deliver immunization services will be presented. This consolidation of reviews and publications from the past 25 years was carried out by USAID's MOMENTUM Private Healthcare Delivery initiative. This opens the way for future work to update global guidance.



Vaccine financing

Chair: Laila Akhlaghi (JSI)
Ulla Griffiths (UNICEF Programme Group)
Murat Hakan Ozturk (WHO PAHO)
Kikelomo Lambo (CHAI)

This session will start with UNICEF sharing an ongoing programme of work on assessing and quantifying the problem of sustainable financing for traditional vaccines as well as proposed solutions. PAHO will next discuss how financially neglected immunization supply chains can be prioritized with appropriate budgeting and financial solutions. Finally, CHAI will discuss how Nigeria successfully increased domestic allocation for vaccine financing as it entered Gavi's accelerated transition.

Plenary room



Thursday, October 19

09:00-11:15 Manufacturers Marketplace

09:00-09:50 Breakouts

Breakout 1 /
Plenary room



Increasing stock visibility for improved decision making and access to health

Work conducted by eHealth Africa in Nigeria, and by MMGH and Bocconi in collaboration with local partners in Guinea, Honduras, Rwanda, and Tanzania has shown that using electronic tools to increase vaccine stocks visibility helps reduce stockouts, ensure access to services, and raise coverage. Solutions are needed to increase government ownership and strengthen infrastructure to ensure sustainability.

Mod: Pat Lennon (PATH)
Mohammed-Faasy Adeniran (eHealth Africa)
Stefano Malvolti (MMGH Consulting)

Breakout 2



Advances in vaccine barcoding

Barcodes increase efficiency of supply chains and enable overall visibility into vaccines in real-time. This session will explore barcodes advancements in LMICs – learn about the use cases for implementation, understand what is being done to accelerate implementation, hear examples of barcode use from countries, and glimpse into the future of verification.

Mod: Matt Morio (PATH)
Pierre Dane (Vital Wave)
Edward Wilson (JSI)
Sharvani Saraf (Gavi)
Malick Sogur (The Gambia Ministry of Health)
Modou Njie (The Gambia Ministry of Health)

Breakout 3



Keys to vaccine stock availability - New findings on vaccine waste and public finance

This session explores two immunization program aspects impacting vaccine availability. Evidence on vaccine wastage is presented, with recommendations on improvements to reduce wastage. Comparisons are made between vaccine stock-out data from Thrive360 and WHO/UNICEF Joint Reporting Form, proposing a framework for analyzing links between stock-outs and public financial management.

Mod: Mwenge Abrahams Mwanamwenge (GAVI)
Joanie Robertson (PATH)
Mercy Mvundura (PATH)
Julia Guerette (VillageReach)
Ulla Griffiths (UNICEF Programme Group)

10:00-10:50 Breakouts

Breakout 1 /
Plenary room



Strengthening the cold chain and lessons learned during the Covid-19 pandemic (Spanish)

The introduction of new technologies for the storage, transportation and temperature traceability for Covid-19 vaccines required training of health staff, including the use of ULT equipment and updating CCE inventories at all levels. Underpinning cold chain and supply chain operations was the strengthening the information system for supporting technical and operational capacity.

Mod: Nora Rodriguez (WHO PAHO)
Thayssa Victor (Brazil Ministry of Health)
Sandra Aparicio Fuentes (Colombia Ministry of Health)
Juan Pablo Rodríguez Santana (Chile Ministry of Health)



Thursday, October 19



Supply chain integration

Mod: Mariam Zameer (VillageReach)
Raj Sachdev (CHAI)
Joe Little (PATH)

Breakout 2

Experts discuss integrated storage and supply chain management for temperature-sensitive health commodities. Learn about CHAI's integration of oxytocin in Kenya and Uganda, and PATH's recommendations for strengthening cold chain in PHC. Join the panel to uncover barriers and enablers for effective integration.



Reflections from the CCEOP and Covax

Mod: Karan Sagar (Gavi)
Karuna Luthra (Gavi)
Thomas Sorensen (UNICEF Supply Division)
Olamide Folorunso (UNICEF Programme Group)

Breakout 3

Explores the achievements, challenges and lessons learned from programmatic implementation, procurement and market shaping efforts of the Gavi Alliance's Cold Chain Equipment Optimisation Platform (CCEOP) and COVAX. Also looks at challenges around CCE inventory systems, maintenance, decommissioning, temperature monitoring and improving the sustainability of the full CCE ecosystem.

10:50-11:20

Coffee-Break

11:20-13:00

Plenary: Immunization Programs That Leave No One Behind

Chair: Olamide Folorunso (UNICEF Programme Group)



Are countries meeting the EVM standard?

Chair: Souleymane Kone (WHO headquarters)
Zainab Berry (consultant)
Dan Brigden (WHO headquarters)
Olamide Folorunso (UNICEF Programme Group)
Paul Colrain (consultant)
Modibo Dicko (The Balanzan Institute)

Plenary room

The session will provide insights into country immunization supply chain performance trends using the Effective Vaccine Management (EVM) scores from 2009 to 2023 (with the introduction of a mobile EVM application in 2019), making recommendations for improvements. The Effective Vaccine Management (EVM) is the global initiative through which immunization supply chain programme performance are assessed using standard criteria, bottlenecks are identified, and recommendations for improvement are developed and implemented. Launched in 2009, the initiative has long been a critical continuous improvement approach to strengthening immunization supply chains and contribute to better-performing health programmes.



Why develop a National Immunization Strategy?

Eric Laurent (UNICEF Programme Group)

Strategic planning for immunization, in post Covid-19 pandemic with consecutive disruptions, is essential to define country's priorities, objectives and interventions, estimate and advocate for resources, and align with national, regional and global strategies. This presentation on National Immunization Strategy highlights the importance of strategic planning and budgeting for immunization.



Thursday, October 19



The digital transformation of immunization supply chains

Digitalisation of supply chains has emerged as the next big tool to improve and transform supply chains. Different countries are at different levels of digital maturity but all of them offer valuable lessons from their digitalisation efforts. This session will churn out key trends and learnings for our journey ahead.

Chair: Sachin Jagtap (Gavi)
Abhimanyu Saxena (United Nations Development Programme)
Stefano Malvoti (MMGH Consulting)

Closing remarks

Dan Brigden (WHO headquarters)
Souleymane Kone (WHO headquarters)
Nora Rodriguez (WHO PAHO)

13:00-14:00

Lunch



Tuesday, October 17



IC1: Getting started with EVM: What is it? How does it work? I have a question...

Dan Brigden (WHO headquarters)
Zainab Berry (consultant)
Ridwan Gustiana (UNICEF EAPRO)
Olamide Folorunso (UNICEF Programme Group)

Find out more about the WHO-UNICEF Effective Vaccine Management (EVM) assessment tool. An array of regional and global experts will be on hand to answer any question you might have.

08:15-08:45



IC2: Equipment inventory and gap analysis tool (IGA)

Maricel Castro (WHO headquarters)
Mojtaba Haghgou (consultant)

This session is to provide information about the uses, benefits of the web-based WHO equipment inventory and gap analysis tool as a digital solution for managing a country's cold chain equipment inventory. Participants will have an opportunity to ask questions so that they can decide if IGA is fit for their needs and become aware of the available support to IGA users.

10:15-10:45



IC1: Thrive360 - Stock management strengthening

Zabi Kamran (UNICEF Programme Group)

Thrive360 is a data integration and triangulation platform with regular reports from over 6,500 stores across 63 countries. It provides a single platform for managers at country, RO and HQ levels to have a holistic overview of vaccine and supplies stock performance, coverage rates and trends, causes and drivers of stockouts, the frequency and duration of stockouts, related service delivery disruptions and the risk of expiry and wastage. It highlights pressing iSC challenges, areas affected and mitigation efforts by the NLWG/EPI.



IC2: Innovative tools to facilitate use of vaccines outside the cold chain

Anna-Lea Kahn (WHO headquarters)
Jon Pearman (Zebra Technologies/Temptime)
Joanie Robertson (PATH)

We will be showcasing the various tool- from a new electronic job aid which assists with the implementation of CTC to improved temperature monitoring tools that accompany vaccine vials and offer more confidence to vaccinators about the maintained stability of the vaccines they are transporting.



IC1: Rethinking capacity-building for the supply chain health workforce: AFRISC app is the solution

Claude Mangobo (WHO AFRO)
Maricel Castro (WHO headquarters)
Dorothee Leab (GanesAid)
Bui Phuong Thanh (GaneshAid)
Adama Sawadogo (The Balanzan Institute)

The session is about to promote the application and engage supply chain workforce to strength their capacity, particularly in the context of limited resources and weaknesses of the face to face training.

13:15-13:45



IC2: Monitoring supply chain continuous improvement plans - Implementation lessons

Srihari Dutta (UNICEF MENA)
Olamide Folorunso (UNICEF Programme Group)

The EVM Initiative is premised on a continuous improvement approach, through which countries assess, plan, implement and monitor their supply chain performance and improvements. Experience has however shown a preponderant focus on the initial 'assessment' phase. This Innovation café will share global, regional and country level initiatives and experiences in developing and monitoring supply chain continuous improvement plans.

15:45-16:15



IC1: Institutionalizing capacity building for national and sub-national supply chain staff - Lessons from Nigeria (EMPOWER)

Ahmad Isah Muhammad (UNICEF Nigeria)
Yoms Ishaku (NPHCDA)
Olamide Folorunso (UNICEF Programme Group)

Leveraging findings from a 2018 human resource for supply chain assessment, a blended immunization workforce development (EMPOWER) initiative was designed to equip Nigeria's immunization supply chain actors at national, States and Local Government Area Level (Districts) with technical, leadership, policy, and strategic management capacities and capabilities. This innovation café session will provide an overview of the concept, outline the methodology/approach, and present initial findings from implementing the initiative.



Wednesday, October 18



IC1: Health information systems to reach under-immunized populations

Allison Osterman (PATH)
Joel Yakubu Cherima (JSI)

This session is about the findings and recommendations from a landscape analysis that identified 11 information systems and tools which are already being used to strengthen immunization equity or require slight adaptations.

08:15-08:45



IC2: Decentralized data with Varo: Gather, aggregate and use cold chain temperature data right away

Brian Pal (New Horizons)
Tahir Buhari (eHealth Africa)

Immunization programs can self-organize a cold chain data ecosystem with just a smartphone and free email account. This is a hands-on demonstration showing users how to instantly implement CCE performance reporting with Varo and Pogo LT. These are two free tools that can be used to capture and aggregate 30DTR temperature logger data, images, location and more from cold chain equipment to create actionable summaries all in real time.



IC1: Skill-building with the Immunization Academy app: Case study on an innovative approach for healthcare workers in Nigeria

Nathan Pienkowski (Bull City Learning)
Salisu Sulaiman (CHAI)
Akachi Mbogu (CHAI)

The challenge: How might countries build the capacity of immunization professionals in a way that is more rapid, scalable, and sustainable? The Immunization Academy app improves healthcare worker performance through short instructional videos, targeted tests, and real-world assignments-- taking just 15 minutes per session. Unlike traditional training, the app increases skill and knowledge retention over time and reduces disruption to work. It puts knowledge right into people's hands, while providing managers with real-time dashboards to track progress. As you scale up training to more and more people, the cost of the app actually goes down.

10:15-10:45

Our session aims to share the learnings from implementing Immunization Academy to increase healthcare workers' knowledge, skills, and practice in Nigeria. This innovative, cost-effective, and high-impact digital learning solution reinforced essential immunization knowledge and skills through a combination of self-paced, demonstrational video lessons and application-based online assessment.



IC2: Democratized & Contextualized Immunization Supply Chain Expertise: IAPHL Country Chapters

Timilehin Omole (IAPHL)
Edward Wilson (JSI)

The International Association of Public Health Logisticians (IAPHL) is a free and open community, bringing together 8000+ health logistics practitioners from 152 countries. Immunization depends on logisticians and supply chains; IAPHL contributes by advancing the field and providing a platform for autonomous learning, peer support, and professional development. Join our innovation cafe to explore how IAPHL Country Chapters can provide contextual expertise and insights to support the design and delivery of inclusive immunization programmes.



IC1: **Connected learning to accelerate local impact at global scale: Year 1 of the Movement for Immunization Agenda 2030 (IA2030)**

Reda Sadki (The Geneva Learning Foundation)

In this session, TechNet conference attendees are invited to meet, network, and learn with IA2030 Movement Leaders who are participating in the Geneva Learning Foundation's IA2030 learning-to-action pathway.

13:15-13:45



IC2: **Learn more about the Boost Community – a global network of immunization professionals tackling complex challenges together**

Elizabeth Kohlway (Sabin Vaccine Institute)

Come by the Boost Innovation Café session to learn more about our diverse community and offerings and hear directly from a few of our Boost Champions about how Boost trainings and our extensive network of peers and experts have impacted their work.



IC1: **Vaccine wastage rate calculator and Vaccination session planner mobile applications**

Maricel Castro (WHO headquarters)
Souleymane Kone (WHO headquarters)

This session is to introduce the two mobile applications, the Vaccination Session Planner and the Vaccine Wastage Rate Calculator, and how they are useful when planning for forecasting vaccine needs and vaccination sessions. The two tools are independent but complementary and the scenario and reports generated are based on wastage rates data.

15:45-16:15



IC2: **Vaccine delivery technologies on the horizon**

Courtney Jarrahian (PATH)
Priscilla Kwarteng (PATH)
Jennifer Foster (PATH)
Manjari Quintanar Solares (PATH)
Elizabeth Griffin (PATH)
Joe Little (PATH)

In this Innovation Café session, PATH will show samples of innovative delivery technologies in development including microarray patches (MAPs), new compact prefilled autodisable devices (CPADs), reconstitution devices, blow-fill-seal containers, autodisable sharps injury prevention syringes, and more. Drop by to see what the future of vaccine delivery might look like!



Tuesday, October 17



Ahmet Afsar (UNICEF Programme Group)

Monovalent type 2 OPV (mOPV2) management in the field: interventions and lessons learned



Lisa Oot (JSI)

08:15-08:45

Moving from identify to reach: using the journey to health model to understand the behavioral and social drivers of undervaccination in Kathmandu, Nepal



Sandeep Kumar (PATH)

On the verge of RSV disease prevention in early life



Sumeet Juneja (UNICEF Iraq)
Mudher Moaen (UNICEF Syria)

Strengthening Immunization Supply Chain Management in Iraq: The Integrated Immunization Supply Chain Data Management System



Ulla Griffiths (UNICEF Programme Group)
Sandra Mounier-Jack (London School of Hygiene and Tropical Medicine)

10:15-10:45

Development of strategies for reaching zero dose communities with vaccination services in Kenya, South Africa and Uganda



Sharvani Saraf (Gavi)
Anna-Lea Kahn (WHO headquarters)
Joanie Robertson (PATH)

Update on VIPS work related to Controlled Temperature Chain (CTC)



Bhrigu Kapuria (UNICEF Lebanon)

Systematic investment in solar energy for vaccination program and primary healthcare in times of crisis: Experience from Lebanon



Timoteo Chaluco (Villagereach)

13:15-13:45

Data Triangulation to Identify Zero Dose Children in Mozambique



Laure-Anais Zultak (CHAI)
Tosin Ajayi (CHAI)

Lessons learned from developing, testing and scaling innovative interventions to increase routine immunization (RI) coverage and equity in Kenya and Uganda



Dorothee Ntakirutimana (UNICEF Haiti)

Resilience in Haiti to implement immunization activities



Margherita Ghiselli (WHO PAHO)

15:45-16:15

Building Better Immunity: A Life Course Approach to Healthy Longevity



Thomas Sorensen (UNICEF Supply Division)

UNICEF's commodity range as well as the market and procurement trends and influencing areas

Wednesday, October 18



Robert Miros (Stone Cold Systems)

Use and performance of actively cooled refrigerators as implemented by ALIMA for transport and outreach in Niger

08:15-08:45



Manjari Quintanar-Solares (PATH)

Assessment of the supply chain and program value of a combined blow-fill-seal container and dropper for novel oral poliovirus vaccines



Nadege Nnang (CHAI)

Cameroon's experience with implementation of the cool water pack policy for optimal management of vaccine temperature during transportation



Cherima Joel Yakubu (JSI)

10:15-10:45

Readiness Assessment of Private Health Facilities in Identification and Reaching of Zero dose and Under-immunized children in Nigeria



Gopal Krishna Soni (JSI)
Andi Sutter (JSI)

By Boat and By Camel: The role of partnerships to support COVID-19 vaccination for last mile and marginalized populations in India



Jon Pearman (Temptime Corporation)

Four recent KAP studies re-confirm the value of VVM in EPI and suggest mHealth features



Nay Myo Thu (UNICEF Papua New Guinea)
Edward Waramin (Papua New Guinea Ministry of Health)
Martha Pogo (Papua New Guinea Ministry of Health)

13:15-13:45

Real-time data monitoring in MR-Polio-Vitamin A Supplementary Campaign



Kikelomo Lambo (CHAI)
Precious Nwiko (CHAI)

Fostering Health Systems Resilience Post-Pandemic Through Supply Chain Data Integration in Nigeria



Rashmi Mehra (JSI)

Enablers and Barriers to Rotavirus Vaccine Coverage in Assam - A qualitative study



Jeniffer Adungosi (CHAI)

15:45-16:15

Integrating primary health care services to improve routine immunization coverage - A case study of Kenya's HPV uptake



Jahid Hossen Shahed (UNICEF Bangladesh)
Monjurul Islam (Bangladesh Ministry of Health)

Implementation of GIS-Based Digital Microplan in Bangladesh

Poster Gallery



Other posters (not presented)



Lesotho's immunisation supply chain: Using data to guide decisions to reduce closed vial wastage of COVID-19 vaccines CHAI



Utilization of Electronic Logistical Management System (eLMIS) for vaccines supply chain in Kenya: Lessons from Chanjo eLMIS CHAI



Piloting vaccine last mile delivery (LMD) model in 3 Kenyan counties CHAI



Drivers of Poor Data Quality, and Usability: Findings and Lessons from a Multi-State Health Facility Based research in Nigeria CHAI



Strengthening coordination and accountability units for effective program management: Lessons learned from multi-country EPI programs CHAI



Integrating related pandemic response to Immunization and PHC Service Delivery (IPRtoSD) – A Strategy for Post-Pandemic Health System Recovery and Strengthening CHAI



Enhancing vaccine supply planning with efficient tracking of vaccine shipments, distribution, and utilization in Sierra Leone - Lessons from the Vaccine Collaborative Supply Planning Initiative CHAI

Lessons learned from developing, testing and scaling innovative interventions to strengthen the birth platform in Cameroon and Nigeria CHAI



The effect of COVID-19 pandemic on routine childhood immunization and timeliness in Tamale Metropolis, Ghana Ghana Health Service



Global Routine Child Immunization Coverage: A Trend Analysis of Data Quality 2000-2019 Harvard University

Poster Gallery



 COVID-19 Vaccine Hesitancy and Acceptance Study in Madagascar: A qualitative analysis using the WHO Behavioral and Social Drivers of Vaccination (BeSD) framework	Jhpiego
Understanding the cold chain maintenance system in Niger: Human centered design to identify innovative solutions	JSI
 Training of Service Providers for Pneumococcal Conjugate Vaccine Introduction in India: Results of National level Pre and Posttest Evaluation	JSI
 Best practices for capacity building of health workers for pneumococcal vaccine introduction in India during Covid-19 pandemic	JSI
 Lot Quality Assurance Sampling for Field Monitoring of New Vaccine Introduction	JSI
 Disruption and restoration of immunization system in Bangladesh during the COVID-19 Pandemic	Bangladesh Ministry of Health
 Championing cold chain data use: A partnership with the Malawi Ministry of Health	Nexleaf Analytics
 Vaccination Week in the Americas: A global movement for equity and population health	PAHO
 Why is Pakistan trailing behind in the implementation of childhood immunization: Inequalities between two South Asian Countries, Pakistan, and Bangladesh	Royal College of Surgeons
 Strengthening the Cold Chain in Paraguay in response to the COVID-19 pandemic: Implications for the autonomy of immunization programs	UNICEF
 Cold Chain capacity strengthening through a digital training platform	UNICEF



Poster Gallery



Cold Chain solarization sustainable and eco-friendly innovation reaching zero-dose children living in remote areas in Venezuela

UNICEF



What is NIS and why is it important?

UNICEF



Health Care Waste Management - How the EAPRO region is aiming at procuring GREEN and SAFE waste treatment technology

UNICEF



Designing immunization supply chains to maximise access. A case study from The Gambia

UNICEF



Leveraging the procurement function to get better, more sustainable results for Programs. A review of the UNICEF AD Syringe procurement

UNICEF

The WHO Immunization Data Portal: Providing access to important immunization data and insights

WHO



Manufacturers Marketplace

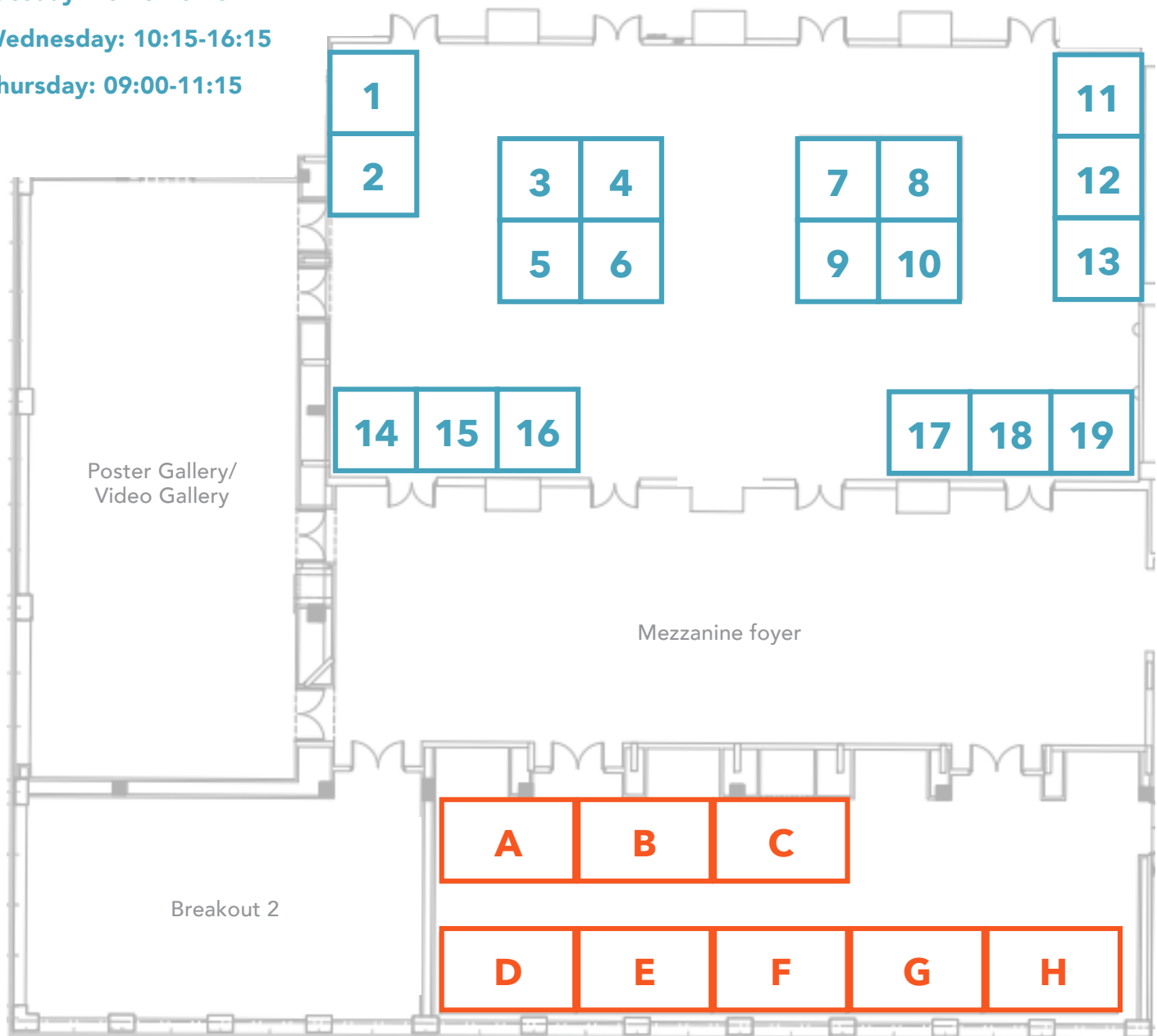
The Manufacturers Marketplace will open at the following times:

Monday: 12:00-16:00

Tuesday: 10:15-16:15

Wednesday: 10:15-16:15















Thursday: 09:00-11:15



Manufacturers Marketplace

















The following companies will be represented at the Manufacturers Marketplace.

1		AOV International	E006: Temperature monitoring devices
2		Apex International	E004: Cold boxes and vaccine carriers
A		B Medical Systems	E003: Refrigerators and freezers E004: Cold boxes and vaccine carriers
3		Berlinger & Co.	E006: Temperature monitoring devices
4		Beyond Wireless Technology	E006: Temperature monitoring devices
B		Blackfrog	E003: Refrigerators and freezers
5		Blowkings	E006: Temperature monitoring devices
6		Blulog	E006: Temperature monitoring devices
C		Coolfinity Medical	E003: Refrigerators and freezers
D		Dulas	E003: Refrigerators and freezers
7		G-Tek Corporation	E006: Temperature monitoring devices
8		GKS	E004: Cold boxes and vaccine carriers
9		Gobi Technologies	E004: Cold boxes and vaccine carriers
E		Godrej / SureChill	E003: Refrigerators and freezers

Manufacturers Marketplace



10		Nexleaf Analytics	E006: Temperature monitoring devices
11		Nilkamal	E006: Temperature monitoring devices
12	 Parsyl	Parsyl	E006: Temperature monitoring devices
13		Porkka Finland	E001: Cold rooms, freezer rooms, and related equipment
F		Qingdao Aucma Global Medical	E003: Refrigerators and freezers E004: Cold boxes and vaccine carriers
G	 Intelligent Protection of Life Science	Qingdao Haier Biomedical	E003: Refrigerators and freezers E006: Temperature monitoring devices
14	 Qingdao Leff Int'L Co.	Qingdao Leff International	E003: Refrigerators and freezers
15		The mSupply Foundation	E006: Temperature monitoring devices
16		My Fridge Online	E006: Temperature monitoring devices
E		SureChill	E003: Refrigerators and freezers
17		Toyota Tsusho Corporation	E006: Temperature monitoring devices
18	 TRIMURTI PLAST CONTAINERS PVT. LTD.	Trimurti Plast Containers	E006: Temperature monitoring devices
H		Vestfrost Solutions	E002: Refrigerated vehicles
19		Zebra	E006: Temperature monitoring devices

TechNet Clinic



At the TechNet Clinic you can learn how to get the most out of the TechNet-21 website and find out what solutions we can offer to promote your work. The Clinic will open at the following times:

Monday: 12:00-16:00

Tuesday: 13:15-13:45

Wednesday: 13:15-13:45

Please stop by if you do not yet have a TechNet account, if you need help with our website, if you have any feedback, or want to discuss ideas for new projects and partnerships.

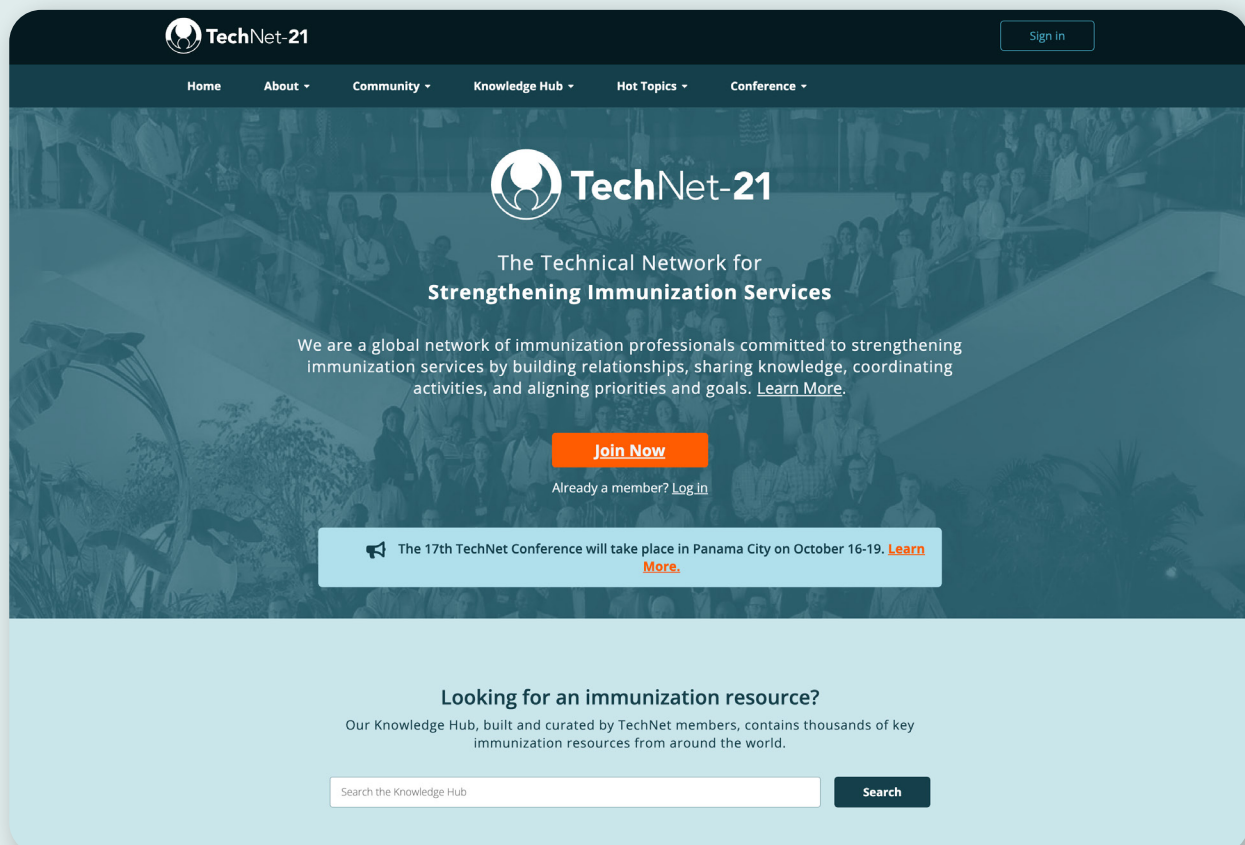


Figure 4. The TechNet-21.org website

Our online community

TechNet is much more than a conference. Our online community hosts more than 5,000 immunization professionals, working to improve immunization services in every country and at all levels, from global policy formulation and national programme management all the way to immunization service delivery. We come together to:

- » Connect with each other and make new contacts
- » Attend TechNet Webinars on the key topics in immunization
- » Ask questions, provide answers, and share knowledge in our [TechNet Forum](#)
- » Join specialist communities of practice known as [TechNet Groups](#)
- » Track upcoming [events](#), such as webinars, training opportunities and global events
- » Search for guidance in our [Knowledge Hub](#)
- » Browse key publications on [Hot Topics](#) curated by global experts

If you don't yet have a TechNet account, [create one](#) and join the community today.

TechNet webinars

TechNet hosts a wide variety of webinars. Recent webinar topics have included:

- » Capacity development & professionalization of the health supply workforce (6-part series)
- » Immunization cold chain equipment inventory and gap analysis (IGA) tool training
- » Identifying, targeting, and reaching zero-dose communities
- » Introduction to the AFRiSC mobile learning platform
- » Guidance for conducting a situation analysis of immunization programme performance
- » Working towards a life course and integration approach to vaccination (5-part series)
- » National Immunization Strategies (NIS)
- » Why gender matters for immunization (5-part series)

Please speak to us if you want to discuss opportunities for new webinar opportunities.

TechNet Groups

TechNet hosts an array of specialist communities of practice in immunization. These are known as TechNet Groups, and can be public, private or invitation only. Groups enable the specialist community to come together in a dedicated, customisable space to collaborate effectively according to their needs. TechNet members can create their own groups to support new communities of practice. Please speak to us if you have an idea for a new group.

TechNet members can [browse the list of TechNet Groups](#) and choose which groups they wish to join. Some recently created TechNet Groups are listed below.

Group	Description
VIPS (Vaccine Innovation Prioritisation Strategy)	VIPS represents an unprecedented three-year collaboration—known as the VIPS Alliance – to develop a single integrated framework to evaluate and prioritise vaccine product innovations and to drive these innovations forward.
MCV 5-dose implementation	A resource hub to inform stakeholders on transitioning from Measles/Measles-Rubella (M/MR) 10-dose vaccine vials to 5-dose vials to improve immunization coverage and equity.
EAC Immunization Group	The EAC is a regional intergovernmental organisation of 6 Partner States: the Republics of Burundi, Kenya, Rwanda, South Sudan, the United Republic of Tanzania, and the Republic of Uganda. This community of practice is a vehicle to institutionalise closer collaboration especially in the face of COVID-19 onslaught.
Vaccine Procurement Practitioners Network	The purpose of the VPPN is to improve vaccine procurement outcomes for children’s health in middle-income countries.

The Knowledge Hub for immunization professionals

Our Knowledge Hub, built and curated by TechNet members, contains thousands of key immunization resources from around the world. Search for keywords or browse by category, disease, country, organisation, author, or tag. Or add your own resources and share them with the TechNet community.

Hot Topics

Curated by TechNet members and partner organisations, the [Hot Topics](#) area contains a rich array of technical information on hot issues in immunization; each Hot Topic provides the community with easy access to a hand-picked list of the most important resources on a given subject - from Covid-19 and CTC to home-based records and HPV vaccine introduction. A list of our most popular Hot Topics is given below. TechNet members are adding new Hot Topics all the time.

Vaccines products & delivery devices	Curated by
COVID-19 Vaccine Label: User Evaluation	Jacqueline Deelstra (PATH)
Vaccine delivery technology – technical resources	David Brown (consultant)
Dose Per Container: Understanding the Effects of Multidose Vaccine Presentations	Kelly McDonald (JSI)
Vaccine Vial Monitor (VVM) - technical resources	Jon Pearman (Zebra/Temptime)

Supply chain and logistics	Curated by
Controlled temperature chain - technical resources	Anna-Lea Kahn (WHO headquarters)
Effective Vaccine Management - technical resources	Dan Brigden (WHO headquarters)
Freeze-preventive passive containers – technical resources	Pat Lennon (PATH)
Healthcare Waste Management	Wendy Prosser (JSI)
Immunization Forecasting and Supply Planning Toolbox	Dorthe Konradsen (UNICEF Supply Division)
National logistics working groups	Dorothy Leab (GaneshAid)
Pfizer-BioNTech COVID-19 vaccine - Technical resources	Maricel Castro (WHO headquarters)

Immunization service delivery	Curated by
Leveraging Community Health Workers (CHWs) to administer vaccines	Rebecca Alban (VillageReach)
Missed Opportunities for Vaccination (MOV)	Laura Nic Lochlainn (WHO headquarters)

Immunization data	Curated by
COVID-19 Paper Based Information System	Jan Grevendonk (WHO headquarters)
Home-based records	Laura Nic Lochlainn (WHO headquarters)
The impact of COVID-19 on immunization programmes - publications	M. Carolina Danovaro (WHO headquarters)
Triangulation for improved decision-making in immunization programmes	Angela Montesanti Porter (US CDC)

Immunization programme management	Curated by
Behavioural and social drivers of vaccination	Lisa Menning (WHO headquarters)
Gender and Immunization	Stephanie Shendale (WHO headquarters)
Guidance, tools, and resources for evidence-based decisions on vaccine switches and EPI portfolio optimization	Molly Sauer (Johns Hopkins Bloomberg School of Public Health)
HR & leadership - technical resources	Adebayo Adekola (UNICEF Programme Group)
Verification and Traceability Initiative	Carly Nel (Vital Wave)

Global initiatives	Curated by
Global compendium of country knowledge on COVID-19 vaccination	Alejandro Ramirez Gonzalez (WHO headquarters)
Eliminate Yellow Fever Strategy - laboratory information (EYE LABS)	Jean-François (Jeff) Lemaire

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Immunization Agenda 2030 Core Principles

-  **People-centred**
-  **Country-owned**
-  **Partnership-based**
-  **Data-guided**

Immunization Agenda 2030 Strategic Priorities

