

unicef 😢 for every child

Focus:





'You see things, and you say why? But I dream things that never were, and I say why not?'

James P Grant, UNICEF Executive Director 1980-1995, quoting George Bernard Shaw The Expanded Programme on Immunization (EPI) was launched in 1974, just as the end of smallpox was within reach. In 1977, the World Health Assembly set the goal to achieve universal child immunization (UCI) against six childhood diseases by 1990.

Between 1983 and 1985, worldwide demand for vaccines tripled, resulting in a corresponding decline in vaccinepreventable deaths. In 1985, UN member states passed a resolution supporting UCI. In 2016, 86 per cent of the world's children received the required three doses of diphtheriapertussis-tetanus containing vaccines.

The Supply Annual Report 2016 highlights the complexities and challenges of vaccine markets and procurement, and also looks to opportunities within the UN's current development framework that unifies sustainability and collaboration – inspiring UNICEF's goal to reach 19.4 million infants who still miss out on life-saving vaccines.

India: Circa 1956, a boy is tested for tuberculosis as part of a mass immunization campaign in New Delhi

Iraq: A boy is vaccinated against measles in Erbil, Kurdistan Region

Cover photo

Myanmar: Children in Hakha, Chin State happily posing for pictures during a country-wide polio vaccination campaign in 2016

Contents

Table of contents



Strategy: The drive for social, economic and envrionmental sustainability is embedded in approaches to increase access to supplies.

P9



Humanitarian response: Procurement with emergency funds reached \$379.1 million for children and families around the world.



P19

Introduction

STRATEGY

UNICEF Global Supply Strategies	P10
Vaccine markets & procurement	P12
Influencing vaccine markets	P14
Uneven road to affordable vaccines	P16

Armenia: A recently vaccinated child at the City of Gyumri polio clinic, where vaccines were supplied through UNICEF procurement services

Ecuador: Children play inside a tent being set up as their temporary school in earthquake-affected Manabi

Sierra Leone: A UNICEF partnership with the European Union is helping to restore health services in Konsho, Bombali District

HUMANITARIAN RESPONSE

P7

Emergencies	_ P21
Vaccines in emergencies	_ P24
Supply preparedness for health emergencies	_ P26

WORKING TOGETHER

The OPV switch	P30
Savings overview 2016	P32
UNICEF Supply partnerships	P35
Collaboration	P36
Supply chain strengthening	P38
Product innovation	P40
Supply Community	P42



5

Working together: Partnerships, coordination and strategic tendering have been key to procuring over \$3.5 billion of supplies and services while saving \$588.2 million in 2016.

RESULTS

Procurement overview 2016	_ P46
UNICEF's major commodity groups	_ P48
Supplier countries	_ P50
Services	_ P51

ANNEXES

UNICEF globa	procurement statistics	P52
--------------	------------------------	-----

Supply: Fit for future

The diverse meanings of sustainability - social, economic and environmental - are central to UNICEF's global supply strategies that focus on availability, affordability and access for every child

The Sustainable Development Goals (SDGs) reflect 70 years of UNICEF's commitment to children through supplies. In 2016, the impact of UNICEF Supply as an enabler towards children's health, learning, protection and inclusion was evident and wide ranging.

In 2016, UNICEF procured \$3.519 billion worth of supplies and services for children. Together with partners, UNICEF delivered price reductions for vaccines and other supplies that resulted in \$588.2 million in savings. In five years, the total savings for governments and partners has reached \$1.656 billion.

Throughout the year, UNICEF worked with its partners to mobilise the best of strategic thinking, technical capacity and ingenuity to increase access for the realisation of children's rights to meet the SDGs, for example:

- Competition and strategic procurement approaches achieved parity in pentavalent vaccine pricing for both low and middle income countries. Vaccines at less than \$1 per dose will increase access and help save 5.7 million children from dying of five preventable diseases by 2020.
- UNICEF sourced over half of its ready-to-use therapeutic food from manufacturers in countries

with high concentrations of child malnutrition. This will help local health systems to expand the use of this life-saving product.

• From assessing the efficiencies of solar-driven water pumps to requiring shipping companies to report on environmental impact, UNICEF actions around procurement got greener.

This report highlights the most essential supply component of national health systems: vaccines. In seven decades of procurement, no other commodity compares in terms of scale, impact and lessons learned. In 2016, UNICEF procured vaccines reaching 45 per cent of the world's children under five vears old. UNICEF's commitment to partnerships and action in vaccine research, development and availability will help secure vaccine supplies to prevent and control disease epidemics and to close gaps that still contribute to 16,000 preventable deaths among children under five years old every day.

2016 marked decisive shifts into new areas of work and new ways of working. Maximising the impact of product innovation requires healthy markets for new life-saving supplies. Building stronger, nationally-led supply chain systems requires strategic decision-making based on analyses

Syrian Arab Republic: A child in rural Dar'a



and approaches that recognise tradeoffs in speed and cost. UNICEF Supply collaborates with entire industry sectors to orient core businesses towards the needs of children.

Responding urgently to infectious disease crises, UNICEF and partner action included the procurement and delivery of one million oral cholera vaccine doses to Haiti, more than 29 million yellow fever vaccine doses to Angola and the Democratic Republic of the Congo and 191 million polio vaccine doses to Nigeria and neighbouring countries. UNICEF, partners and industry launched a systematic effort to develop a point of care diagnostic device and discover a vaccine to stop the Zika virus.

In the seemingly interminable upheavals of emergencies that have forced 50 million children to flee for their lives, supplies were fundamental to sustaining hope. UNICEF launched emergency supply responses in countries throughout the world, including five large-scale emergencies calling for UNICEF-wide mobilisation.

This report acknowledges the diverse skills and experience of UNICEF's Supply Community, united in the commitment to bring supplies to children, now and in a future where every child's life is safe and complete.



Evolving markets and changing operational contexts demand the rethinking of prevailing approaches and capitalising on new opportunities to ensure that every child can access life-saving supplies. Fit-for-future global supply strategies will help UNICEF to deliver results targeting the Sustainable Development Goals.

CORE SUPPLY STRATEGIES – linking supply approaches to the SDGs

Services

Service delivery

Emergency response

Providing timely and responsive service delivery by ensuring value for money and expertise on products, markets and supply chains. In 2016, UNICEF procured \$3.519 billion in supplies and services for programmes and Procurement Services partners.

1 2 3 4 5 6 10 12 13 17

Meeting UNICEF's Core Commitments for

Children in humanitarian action by providing

supplies and expertise to ensure timely and

appropriate emergency response, including for

with emergency funds reached \$379.1 million.

1 2 3 4 5 6 9 10 11 13 17

Strengthening supply chains

public health emergencies. In 2016, procurement

\$882 million in 2016. 1 3 4 5 6 9 17

Influencing markets Working to positively impact market dynamics for supplies that are essential in driving down child mortality. In 2016, an expanded supplier base contributed to a more competitve pentavalent vaccine market, and a higher percentage of procurement from local suppliers.

1 2 3 4 5 6 8 9 10 12 17

Supply financing solutions

Reducing costs, stock-outs and wastage, through capacity development and technical assistance to governments and to local supply chains. Country-tocountry knowledge exchange and standardisation of monitoring tools for countries and partners were featured in 2016.

1 2 3 4 5 6 8 9 10 12 13 17

or finding solutions through the banking sector supports emerging middle income countries and local suppliers looking to enter the market or expand production.

1 2 3 5 8 9 10 16 17



ENABLING STRATEGIES

Partnerships aims at becoming a better partner by ensuring a timely and collaborative approach, continuous self-reflection and placing value on contributing to shared results. **Supply community** aims at ensuring the professional development and career mobility of UNICEF staff working in the supply function and fostering professional belonging and teamwork.

Working together for results aims at

fostering a project management and a team approach to work.

Supply and the Sustainable **Development Goals**

In 2016, UNICEF recalibrated its working vision to ensure alignment with the SDGs in realising child rights. Through reflection and analysis, UNICEF worked with partners and stakeholders to identify how UNICEF Supply will keep adjusting - to accelerate the achievement of results in new programmatic scopes, in different operating contexts, using alternative funding models.

FOCUS AREAS

UNICEF Global

Products and markets

Innovation and market influencing to make supplies accessible, affordable, appropriate in the context of climate change, urbanisation, migration, neglected infectious diseases, etc.

Supply Strategies

Domestic resource mobilisation Strenathening domestic resource mobilisation as more countries move from donor- to self-financing their procurement of life-saving supplies.

systems strengthening. Evidence, analysis and knowledge Developing a more holistic approach to recording, monitoring, analysing and sharing knowledge on markets, products

The science of delivery

and services for children.

Using supply chain analyses to inform

decisions to improve value for money,

speed, quality, national ownership and

Uganda: Children play at the UNICEF supported Integrated Early Childhood Development Centre, Bidibidi Refugee Settlement in Yumbe



Improving management of service contracts. through better guidance, monitoring tools and reporting mechanisms. This significant area of procurement reached a value of

Ensuring that countries can procure life-saving supplies, even if funding is delayed. Bridging gaps through UNICEF's prefinancing mechanisms

In-country logistics

Performance-focused in-country logistics (i.e. transport, warehousing and customs clearance) and reducing risks in managing inventory in transit and in warehouses.

1 2 3 4 5 10 12 13 17

Product innovation

Driving research and development of products. such as a Zika point of care diagnostic test and a rapid E. coli detection device which are not currently available on the market. In 2016, seven target product profiles (TPPs) were launched, inviting partners, industry and academia to work together to develop innovative life-saving products.

1 2 3 4 5 6 7 9 10 12 13 17

Monitoring

Closely tracking several data points along the supply chain, while keeping the whole chain in perspective. In 2016, much was done to align the use of tools and processes across countries and between partners to better manage supply chains for results.

1 2 3 4 5 6 12 17

Optimising UNICEF Supply aims at continuously improving the performance of UNICEF's supply chain and increasing efficiencies to achieve programmatic results.

Evaluation aims at examining UNICEF Supply's strategic results and supporting the implementation of results-based management. 2000

Gavi, the Vaccine Alliance was

launched to help introduce new

vaccines into the EPI schedules

2001 ~~

of the 73 poorest countries.

1940s

From 1947, UNICEF supported post-war tuberculosis (TB) vaccination campaigns in Europe, reaching 16 million people with Bacillus Calmette-Guérin (BCG) vaccine through the Scandinavian Red Cross Many vaccines (e.g. smallpox, diphtheria, pertussis, tetanus (DPT), vellow fever) were already available and mass production enabled largescale procurement

~~ 2007-2009

In 2007, WHO recommended

introducing PCV to the EPI.

To bring prices down, Gavi

advance market commitment

(AMC) with manufacturers to

provide the vaccine at a low

members established an

1960s

1950s

Public health campaigns

moved to developing

countries. Medicines

of people from yaws,

leprosy, trachoma, etc.

BCG reached 1 million

In wealthy countries,

inactivated polio vaccine

(IPV) entered the market

and other vaccines were

~ 2010-2016

Pentavalent contains DPT

plus hepatitus B (HepB) and

(Hib). In 2010, the first

haemophilus influenzae type B

10-dose vial was licensed, which

reduced per dose prices and

increased supply and uptake.

children a month.

in development

(e.g. penicillin) became

cheaper. UNICEF-procured

antibiotics saved millions

It became clear that in developing countries, the impact of mass campaigns was not sustainable without due attention to context (e.g. trained health workers, basic infrastructure, strong governance, etc.). Vaccine procurement declined even as oral polio vaccine (OPV), and measles, mumps & rubella vaccines became available.

Vaccine markets & procurement

1999-2002

As expensive combination and

available, e.g. measles-mumps-

conjugate vaccines became

rubella (MMR) and acellular

pertussis, they were quickly

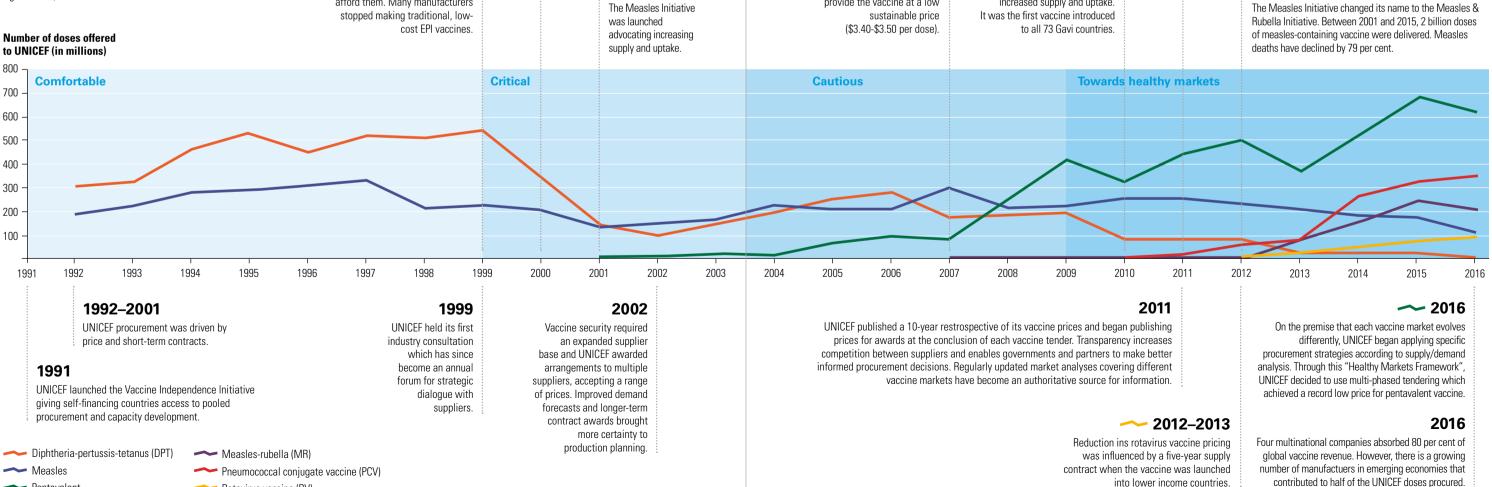
adopted by countries that could

afford them. Many manufacturers

Across seven decades, vaccine markets have evolved. In the last three, lessons learned have transformed **UNICEF** vaccine procurement into a strategic activity

Using selected vaccine markets and mapping changes to supply (measured as number of doses offered to UNICEF) this illustration broadly depicts the volatility of markets and how global health policy, partnerships and procuring together, shape supply outcomes.

Over time, UNICEF vaccine procurement has evolved into a strategically planned activity that aims to ensure every child's right to safe, effective and affordable vaccines.





Pentavalent

1970s

In 1974, WHO launched the Expanded Programme on Immunization (EPI) in developing countries. UNICEF procured measles, DPT. OPV and BCG vaccines. as well as syringes and refrigerators. The cost of FPI vaccines was low because manufacturers did not need to change their production capacity to meet demand. In 1977, the World Health Assembly set the goal to achieve Universal Child Immunization by 1990.

1980s

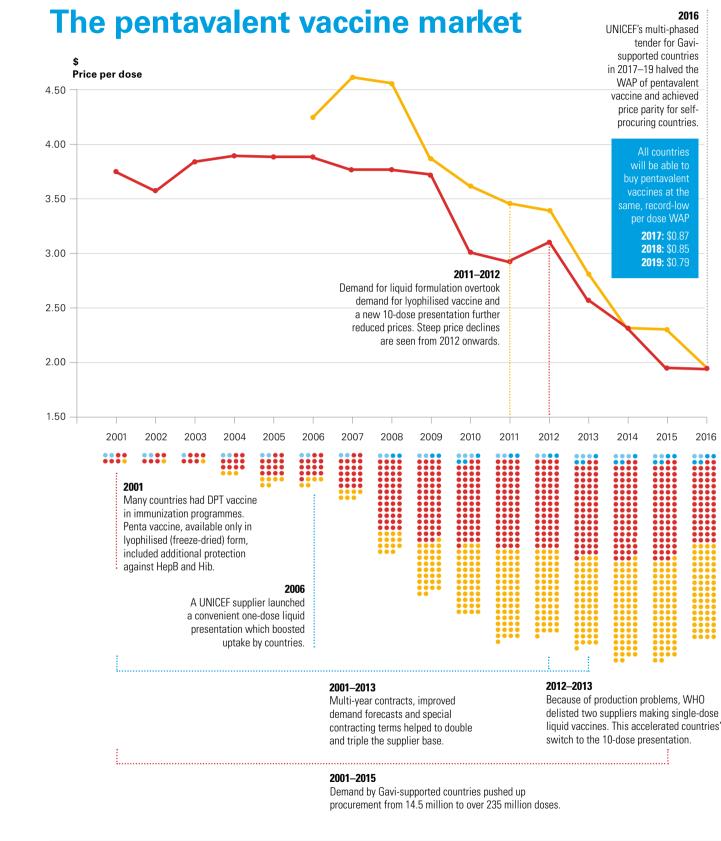
WHO's new pregualification (PQ) programme ensured all UN-procured vaccines were safe and effective. National **Regulatory Agencies were** strengthened so they could assess the quality of vaccines imported or produced by their country Emerging economies such as India and Indonesia looked towards making pregualified vaccines. Global polio eradication was launched in 125 countries, with UNICEF leading procurement.

2011-2020

The Global Vaccine Action Plan (GVAP) was endorsed by the 194 Member States of the World Health Assembly to achieve the Decade of Vaccines vision by delivering universal access to immunization.

2012 ~~

The Measles Initiative changed its name to the Measles &



Influencing &

In 2016, UNICEF and partners applied the healthy markets framework to achieve a breakthrough pentavalent vaccine price in an already competitive market

In 2016, UNICEF collaborated with Gavi and the Bill & Melinda Gates Foundation to develop the healthy markets framework (HMF) - an analytical tool to evaluate vaccine markets, and identify market influencing and procurement approaches that will achieve supply security, as well as longer-term, sustainable supply efficiency.

The HMF longer-term view takes into account a range of factors impacting child immunization programmes, for example cold chain capacity, operational requirements and other challenges. The longer-term view also considers future prospects for competition and innovation to ensure industry remains engaged around pricing and developing that addraga dafisionaiae

to choose the vaccine presentation that best suited their programme needs. For the 2016 pentavalent vaccine tender exercise, the HMF analysis helped to identify a multi-phased tender as the modality for maintaining a sustainable, affordable vaccine supply in an already competitive market.

Suppliers were invited to make pricing offers, contracts were awarded for the most competitive prices and these were published. UNICEF then launched a second request for proposals which gave time for suppliers to maintain or adjust their initial prices. Awards were made to six manufacturers, out of which five have R&D pipelines for six products being developed for the poorest acustrica, LINICEE is also following

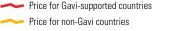
FOUR TIERS OF **HEALTHY VACCINE** MARKETS

- 1. Supply meets demand Countries have vaccines of the right quality, in the right quantity and at prices to meet their immunization needs.
- 2. Supply meets country preferences
- Countries have access to vaccines in the presentation, vial, size, packaging, etc., that meets the particular requirements of a country's immunization programme.
- 3. Supply security
- There are enough buffer stocks available to cover unexpected shortages.
- There is no over-dependency on individual suppliers

预览已结束, 完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5 6183





One dot represents a supplier

from a high income country
from an emerging economy

STRATEGY 15

One dot represents