Newborn Target Product Profiles (TPPs)
Providers in low-resource settings often lack the tools needed to deliver quality newborn care

The Newborn Technology Landscape is a publicly available document highlighting technologies that are either commercially available or in development.
There is an urgent need for neonatal technologies that are affordable, rugged, effective & simple to use

Newborn Target Product Profiles (TPPs) define characteristics for innovations that are needed to support the care of newborns in hospitals in low-resource settings
TPPs were created for 16 product categories

1. Syringe Pump
2. Bilirubinometer
3. Phototherapy
4. Glucometer
5. Hemoglobinometer
6. pH Monitor
7. Sepsis Diagnostic
8. CPAP
9. Flow Splitter
10. Oxygen Concentrator
11. Pulse Oximeter
12. Respiratory Rate/Apnea Monitor
13. Suction Pump
14. Radiant Warmer
15. Temperature Monitor
16. Conductive Warmer

Hydration, Nutrition, and Drug Delivery
Jaundice Management
Point-of-Care Diagnostics
Infection Prevention and Control
Respiratory Support
Thermal Management

1 For this product category, only a use-case survey was published as it was determined that further analysis and consultation was required to formulate a TPP.
An extensive Delphi-like process informed the development of the TPPs

1. **Draft Development**
   - A review was conducted of stakeholder needs and product categories were developed
   - An assessment was conducted of current and emerging products for newborns
   - An initial set of 16 TPPs were developed listing a proposed set of performance and operational characteristics

2. **Survey Conducted**
   - A survey was sent to over 180 key stakeholders; 103 responses were collected from 22 countries
   - Agreement was scored on a Likert scale ranging from 1 to 5 (1=disagree, 2=mostly disagree, 3=do not agree or disagree, 4=mostly agree, 5=fully agree)

3. **Consensus Meeting**
   - A consensus meeting was held with 69 stakeholders in Stellenbosch, South Africa
   - Characteristics on which fewer than 75% of the respondents agreed were discussed
   - Discussion notes were summarized and TPPs were refined

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**Key stakeholders - clinicians, implementers, representatives from Ministry of Health, advocacy organizations, international agencies, academic and technical researchers and members of industry – played an active role in the development of the TPPs**
The TPPs are available as a public good on the UNICEF website here.