



Grand Challenges Canada[®] Grands Défis Canada

**The Kangaroo Mother Care Development
Impact Bond: Towards worldwide
dissemination of KMC**

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Background

Grand Challenges Canada is an **innovation platform** that seeds and transitions to scale **scientific, social and business innovation** to drive sustainable impact at scale.



Define Grand Challenges – significant barriers that, if overcome, will lead to transformational impact



Launch innovation competitions to find the best ideas in low- and middle income countries and Canada



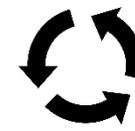
Invest selectively to catalyze scale and sustainability of the most promising tested innovations



Model and measure impact to guide resource allocation

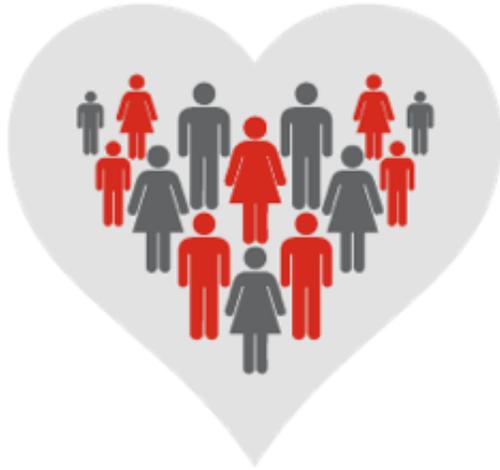


Accelerate impact through provision of individual and collective support to innovators



Iterate and evolve to improve our value for money

We Save and Improve Lives



450,000–1.6M lives saved by 2030
through the use of innovative products and
services that **save lives**

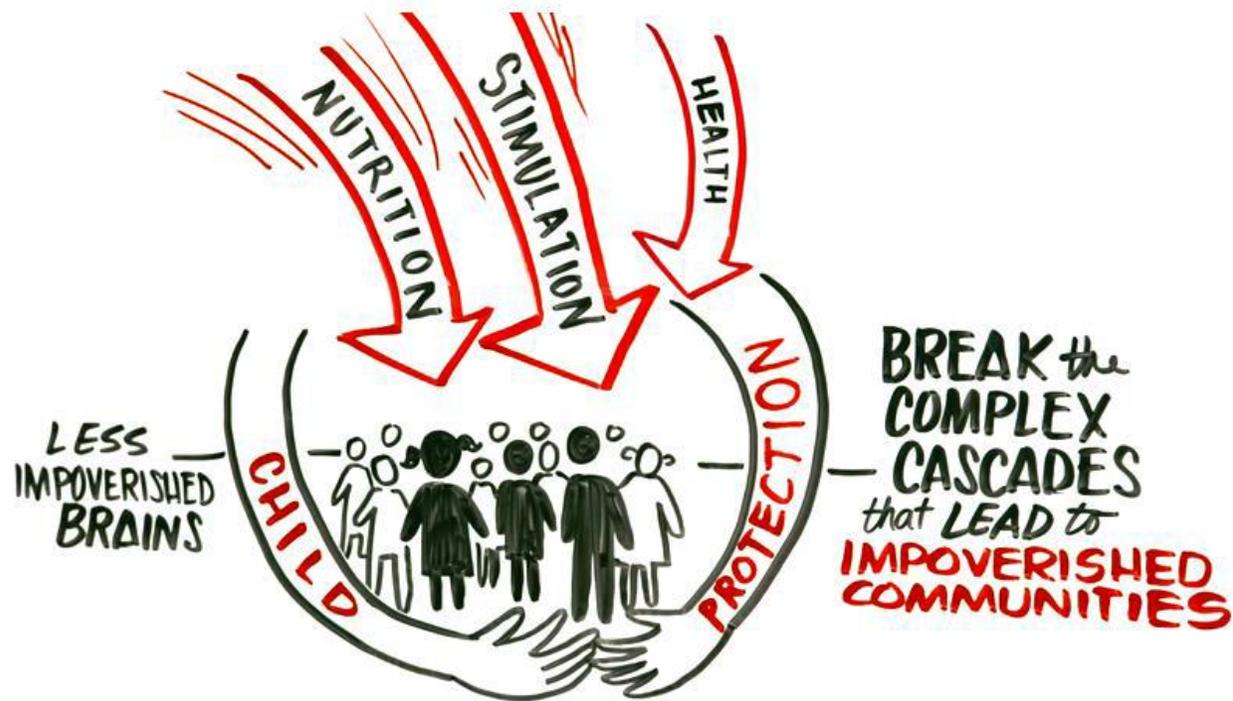
13,000 lives have been saved to date



11M–35M lives improved by 2030
through the use of innovative products and
services that **improve lives**

1.5M lives have been improved to date

We Want Every Child to Survive and Thrive



KMC Saves Lives!



Strong evidence that KMC leads to measurable short term benefits including:

- ↓ Neonatal mortality
- ↓ Infection
- ↓ Hypothermia
- ↑ Early and exclusive breastfeeding

KMC requires **minimal infrastructure**

KMC Saves Brains!



**KANGAROO MOTHER CARE
HAS SIGNIFICANT, LONG-LASTING
SOCIAL AND BEHAVIOURAL PROTECTIVE
EFFECTS 20 YEARS AFTER THE INTERVENTION**

Reference: <https://pediatrics.aappublications.org/content/early/2016/12/08/peds.2016-2063>

And Yet... KMC Is Not Scaling!

...country-level adoption and implementation have been limited, and only a very small proportion of newborns who could benefit from KMC receive it.

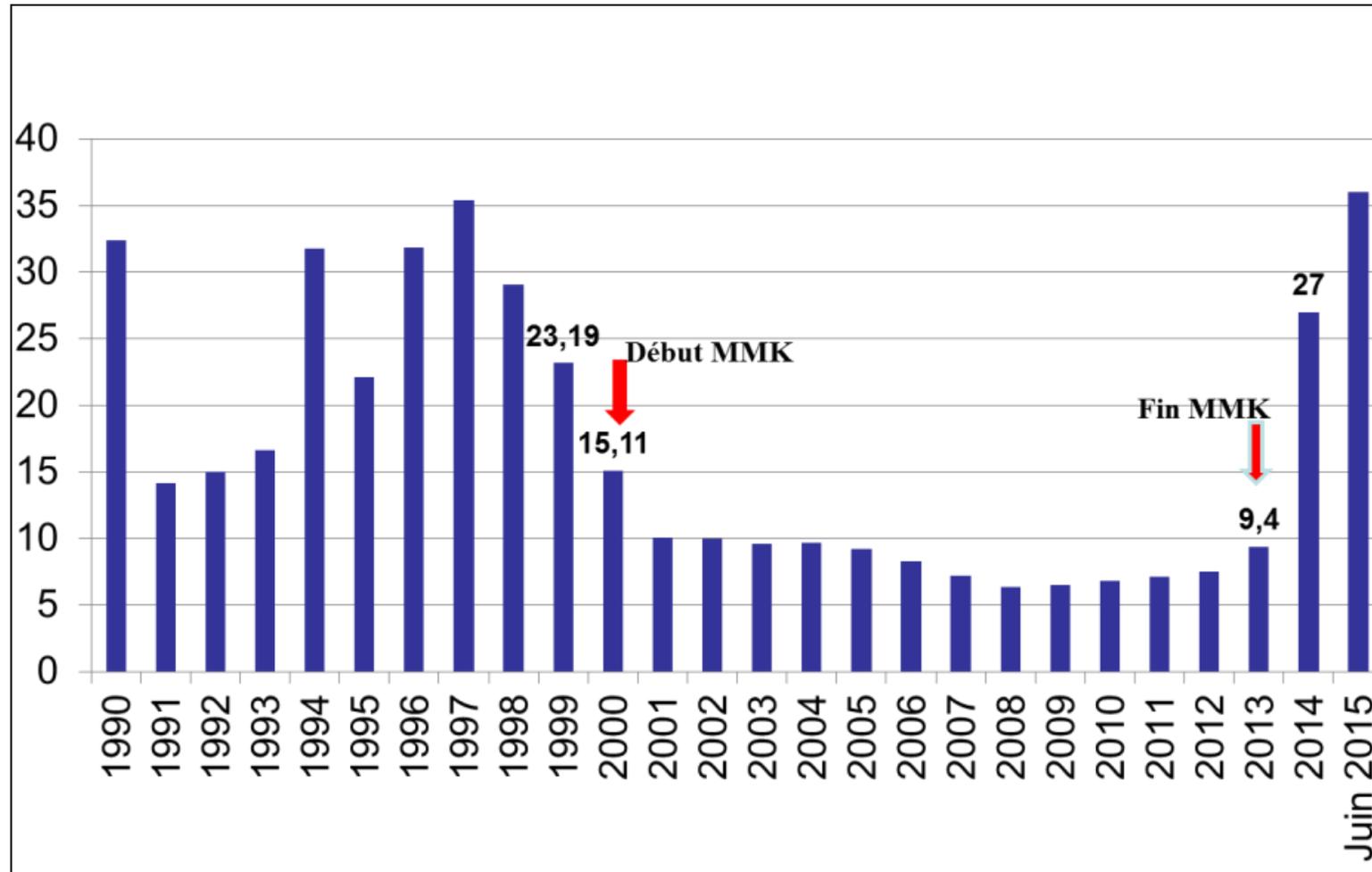
- *Healthy Newborn Network*

Barriers exist in:

- Health financing
- Community ownership and partnership
- Health service delivery
- Leadership and governance
- Health workforce



KMC Leadership Needs to be Diffuse



Odette and Nathalie C



Transitioning KMC to Scale

Kangaroo Foundation, Colombia

Working in Cameroon and Mali

Innovation

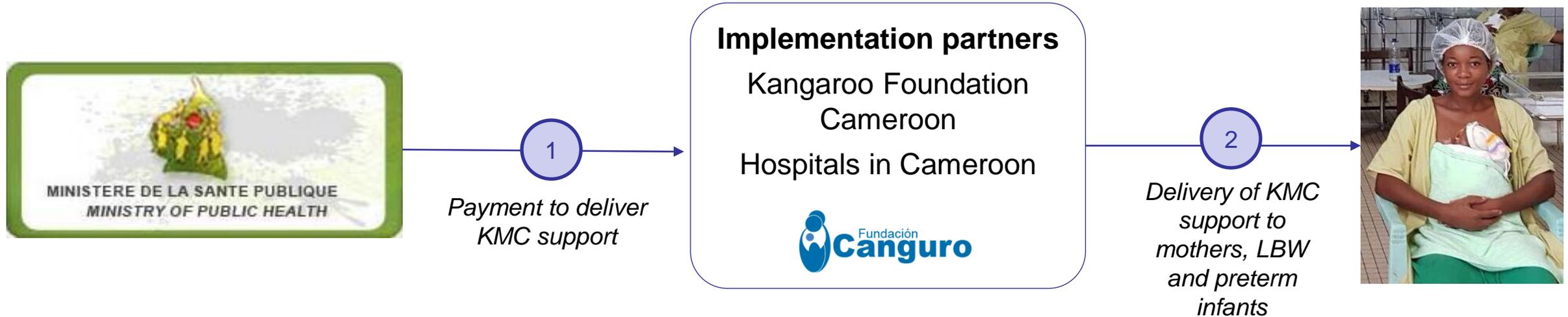
Train-the-trainer model supported by an e-learning platform to create and institutionalize domestic expertise to provide high quality KMC.

Impact in 18 Months

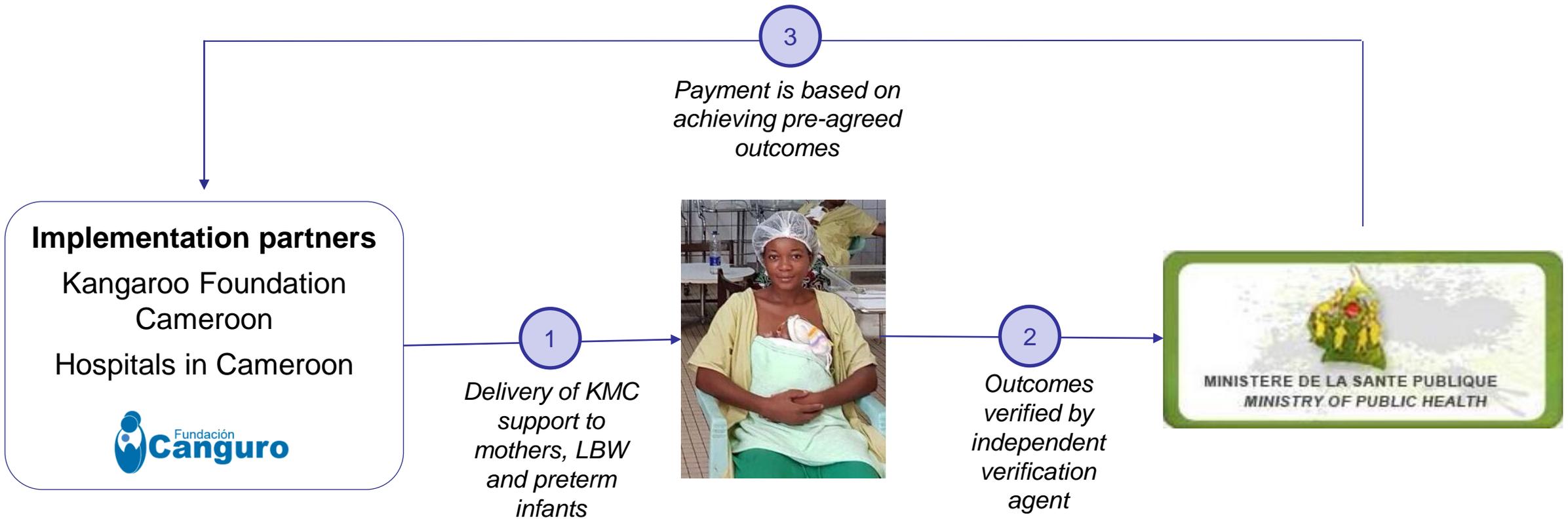
Centers of Excellence in both Mali and Cameroon were trained and successfully trained a total of **9 regional centers**. **2,365 low birth weight and premature infants** received comprehensive and quality KMC leading to **163 newborn lives saved**.



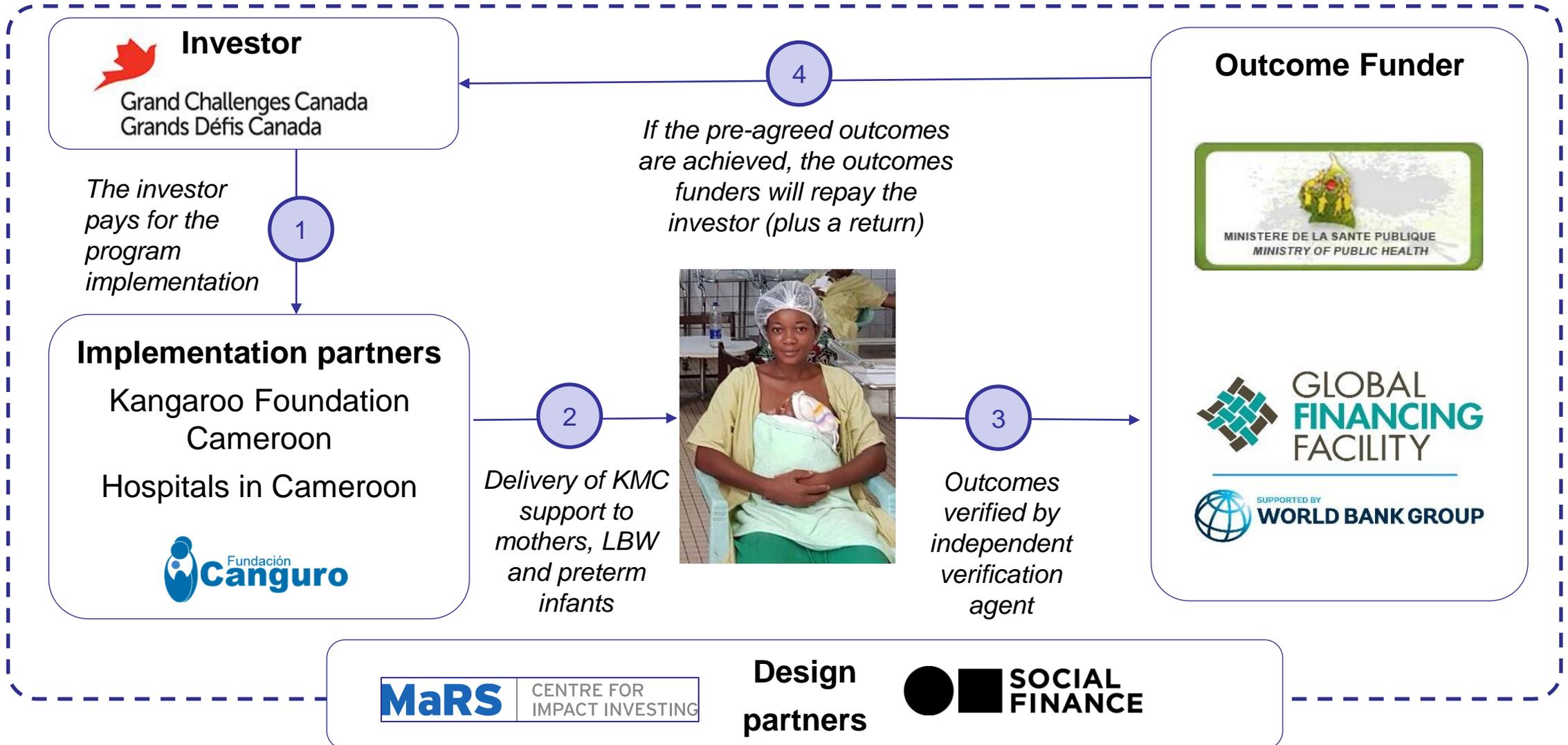
Traditional Approach: Pay for Service



Innovative Approach: Pay for Success

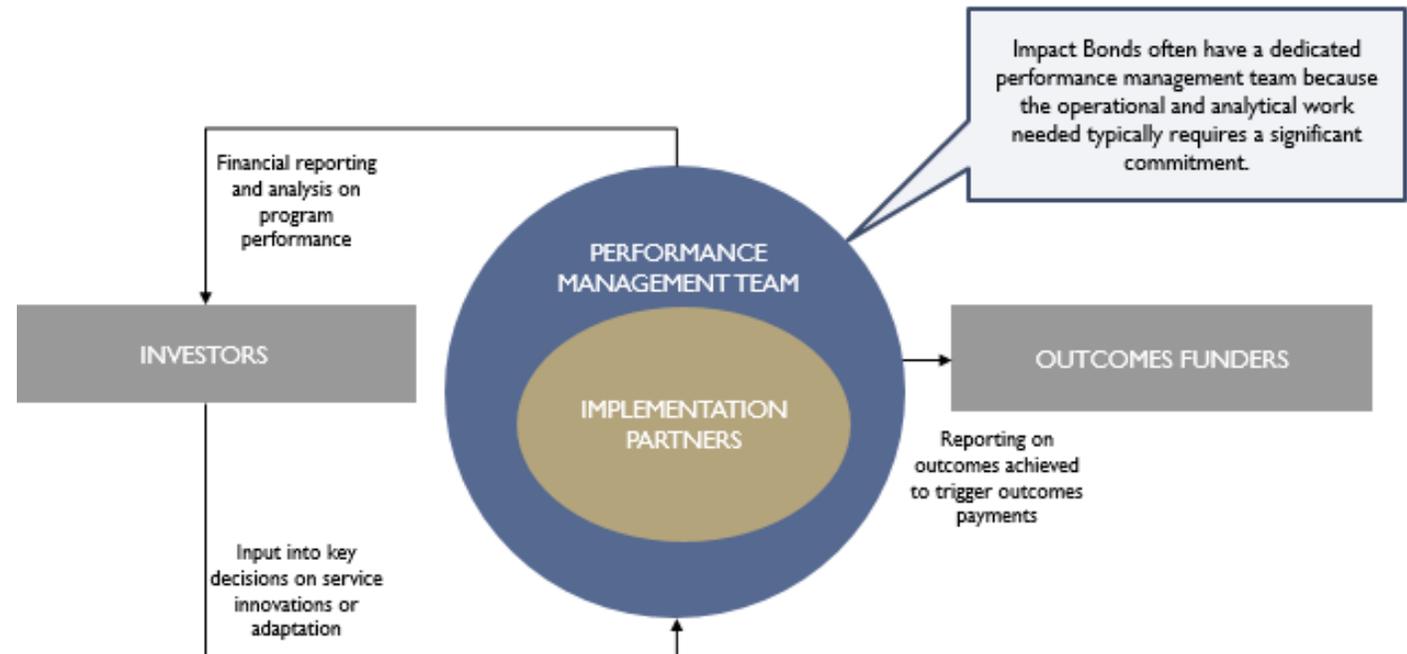


KMC Development Impact Bond: A New Kind of Partnership



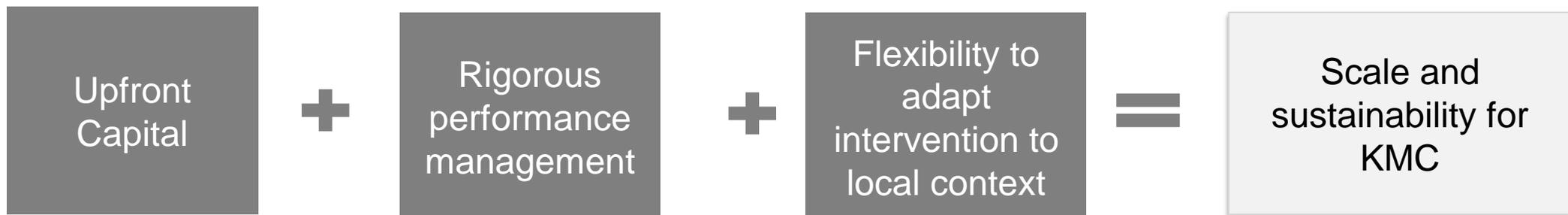
Why a Development Impact Bond?

- Provides **value-for-money guarantee for funders** (government and donors) who will only pay if the desired results are achieved, while **transferring the risks** associated with effective implementation to investors
- Provides **flexibility and strong incentives** to test and refine the KMC training program through continuous data tracking and performance management
- **Enhanced transparency and accountability** because investors are only paid when outcomes have been independently verified, the DIB provides



Overcome Barriers to Scale

- The DIB increases the potential for scaling and mitigates the impact of potential barriers such as lack of government uptake, insufficient funding for infrastructure and limited incentive for innovators to continue expanding.
- **The DIB will fund infrastructure on the ground, building capacity of people involved and engages governments from the start to ensure sustainable involvement.**



The Potential of the KMC DIB

The DIB will invest in:

- The required **staffing, training and evaluation infrastructure and equipment in target hospitals to deliver quality KMC**
- The **enabling activities** and structure required to capacity build KF Cameroon and performance manage delivery partners to deliver good outcomes in the implementation of KMC

Potential Results:

- Based on current estimated costs and modelling, the DIB will enable quality KMC to be implemented in **9 hospitals, reaching ~1,700 LWB and preterm infants** in 2 years



.This model ensures that the required knowledge and skills are **institutionalized into the health system in Cameroon** as a number of key players hold the expertise, increasing the likelihood of sustainability.

Outcome Funders Only Pay for Results Achieved

Payment Metric A

The number of hospitals able to deliver quality KMC based on a minimum level of hospital inputs based on a pre-agreed checklist.

Payment Metric B

The number of eligible infants receiving quality KMC until discharge based on a quality checklist.

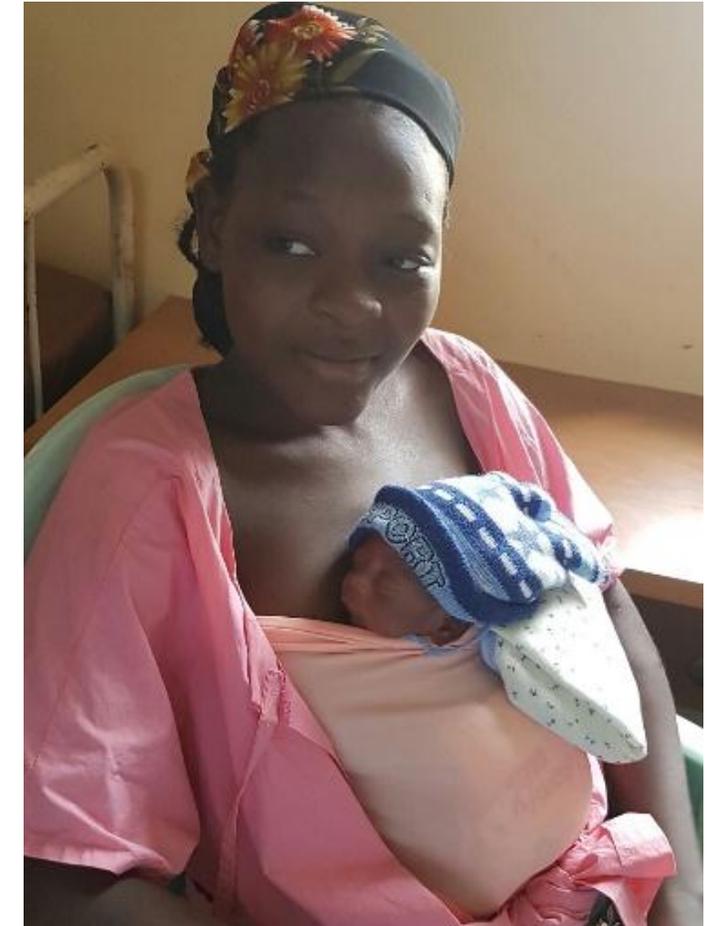
Payment Metric C

The percentage of infants enrolled who come back to their 40 week follow-up appointment who have reached an adequate weight while receiving appropriate nutrition

Before payments are made, results will be independently verified by an independent verification agent.

Lessons Learned

- DIB funders tend to be governments and nonprofits who have both
 - a) little experience with DIBs, and
 - b) extensive funding limitations
- DIB may appear higher risk than traditional funding structures to investors
- The greater number of partners, the more complex the process will be
- Designing a DIB from scratch is expensive and labour-intensive



More Cause for Optimism



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Enables kangaroo care for low birth weight babies



Allows for breastfeeding with ease



Reduces stress on your back & shoulder



Facilitates safe, handsfree use



Can be used by mom or dad



Modest design for all day, everyday use



More Cause for Optimism



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BEMPU flashes a blue light when the baby is at a normal temperature

STAY WARM
STAY STRONG



BEMPU flashes orange and alarms when the baby is hypothermic.

smart little friend



The mother does kangaroo care.



Once the temperature returns to normal, BEMPU flashes blue again. Mothers do KMC to prevent future alarms.



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