

# Using an Innovative Public-Private Partnership Model to Increase Access to Affordable Implants: Lessons Learned from the 5-Year Sino-implant (II) Initiative

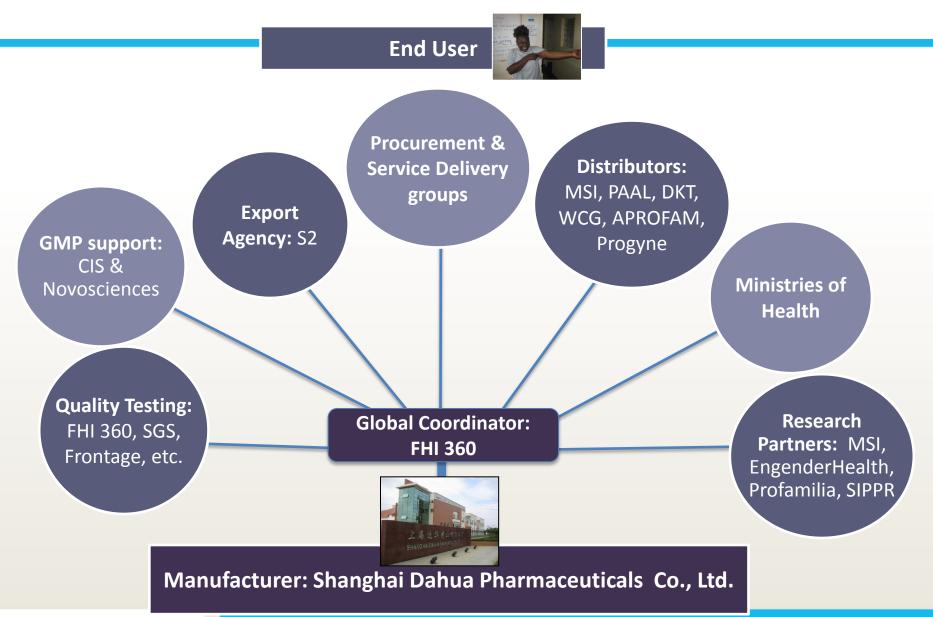
#### Kate H. Rademacher

Senior Technical Officer
FHI 360, Contraceptive Technology Innovation
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RHSC Membership Meeting



# The Power of Partnerships

## **Dahua's Global Business Platform with Current Partners**



## Overview: Sino-implant (II) Initiative

To increase access to highly effective, low-cost contraceptive implants in

**Shared Goal:** 

contraceptive implants in **Post-marketing** resource-constrained settings studies; product introduction **National** Quality registrations testing Sino-implant (II) **Initiative** WHO **Price ceiling** Prequalification; agreements with **Clinical studies** distributors

Funding for the Sino-implant (II) initiative comes from the Bill & Melinda Gates Foundation

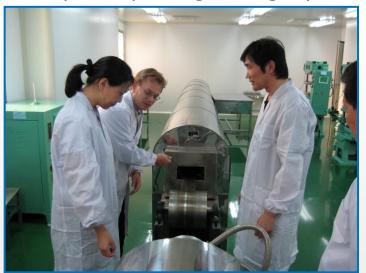


## Ongoing product quality evaluation

• Lot-Release Testing: Every Sino-implant (II) lot tested by Dahua and independent, internationally recognized company (SGS)

• Annual Evaluation: API, metal impurities, sterilization residue, endotoxins,

cytotoxicity, and package integrity



2008-2012:
Product met all international quality standards evaluated

- Cpk Analysis of three test parameters (dissolution, content and tube thickness) showed manufacturing process is stable & well-controlled
- **Explant study** compared levonorgestrel in Sino-implant (II) rods removed after different periods of use to published data for Jadelle

## **WHO Prequalification Process Ongoing**



- Application compiled and submitted to WHO by Dahua with technical assistance from FHI 360
- Application accepted for formal review in Oct 2010
- Process includes clinical dossier review, CMC dossier review, and GMP inspection
- Additional clinical data requested; studies in the Dominican Republic and China ongoing

### WHO GMP Status Achieved Jan 2013

 Dahua determined to be operating in compliance with WHO Good Manufacturing Practices (GMP)



## Sino-implant (II) Registration Status

**Sept 2013** 

Registered under multiple trade names:

Zarin, Femplant, Trust, Simplant

#### Registered (n=25)

Bolivia<sup>†</sup>
Burkina Faso<sup>†</sup>
Cambodia<sup>†</sup>
Chile\*
China
Ethiopia\*\*

Fiji<sup>†</sup> Ghana<sup>†</sup> Guatemala<sup>¥</sup> Indonesia

Jamaica Kenya<sup>‡</sup> Madagascar<sup>‡</sup> Malawi <sup>‡</sup> Mali <sup>†</sup> Mongolia<sup>†</sup>

Mongolia† Mozambique‡ Nepal\*

Pakistan<sup>†</sup>
Senegal<sup>‡</sup>
Sierra Leone<sup>‡</sup>
Uganda<sup>‡</sup>
Zambia<sup>‡</sup>
Zanzibar<sup>‡</sup>

Nigeria<sup>‡</sup>

## Under review in over 10 additional countries

†Distributed by Marie Stopes International (MSI);

‡ Distributed by Pharm Access Africa Ltd. (PAAL)

\* Distributed by WomanCare Global

\*\* Distributed by DKT International

¥ Distributed by APROFAM

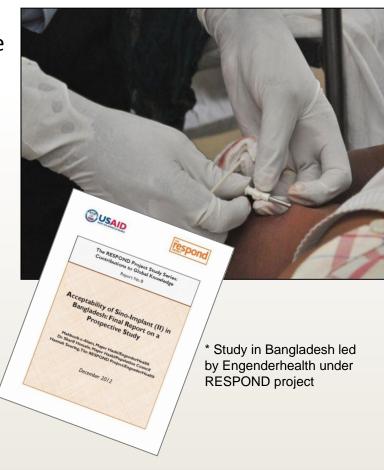
## Pre- & Post-Marketing Studies in Four Countries

## Over 2,500 women enrolled across four studies: Bangladesh\*, Kenya, Madagascar, and Pakistan

- Findings contribute to understanding of safety profile
- Desire from Ministries of Health for local data
- Research partners: EngenderHealth, MSI
- Funding from USAID and Gates Foundation

## Studies completed with 12 months of follow-up data available. Key findings:

- Bangladesh & Madagascar: no pregnancies
- Kenya & Pakistan: pregnancy rate below 1%
- Insertion problems rare
- High satisfaction and continuation rates
- 1 Serious Adverse Event (SAE) reported that was possibly related to product: pregnancy in Kenya was ectopic





# 1 Million units distributed since 2009 in countries supported under project

## **According to the MSI Impact Calculator:**

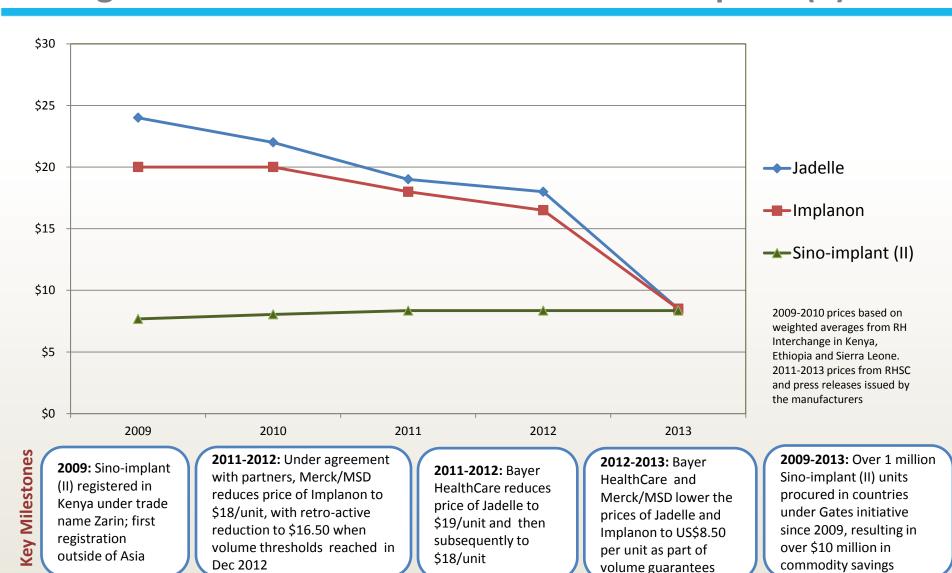
- 1.4 million unintended pregnancies averted
- Over 3000 maternal deaths averted
- Over 175,000 abortions averted

## In addition, units translate into

\$10.5 million in commodity cost savings\*

Savings mean that an additional 1.3 million units of Sino-implant (II) could have been purchased

## Contraceptive Implant Prices 2009-2013: Changes Since Global Introduction of Sino-implant (II)





## **Key Take-Aways and Lessons Learned (1 of 2)**

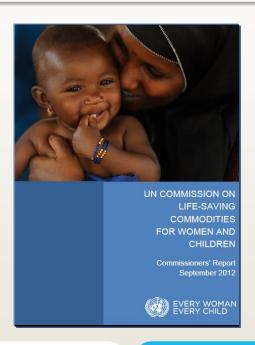
- **✓** Three highly effective, low-cost contraceptive implants are now available
  - Dahua played direct role in this effort by being the first to market with a low-cost (<US\$9/unit) contraceptive implant</li>
- ✓ Support to Dahua from global coordinating entity facilitated dossier submissions, quality testing, and international introduction

- ✓ WHO Prequalification remains critical milestone
  - Process lengthy and costly; ongoing technical assistance will be required
- ✓ For all implant programs, ensuring high quality service provision, informed choice, and timely access to removals is essential
  - Will require commitment and involvement of multiple partners

## **Key Take-Aways and Lessons Learned (2 of 2)**

## Sustainability remains priority

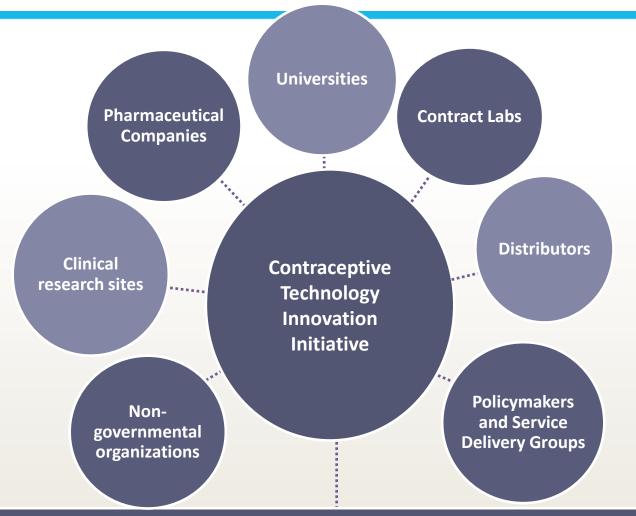
- Southern manufacturers may not have capacity for all activities including product registrations and renewals. Partnerships important moving forward
- Size of total implant market unknown
- New landscape may require modified business model for Dahua



The UN Commission on Life-Saving
Commodities for Women and Children
recognizes that to strengthen quality and
ensure accessibility, it is essential that "at least
three manufacturers per commodity are
manufacturing and marketing quality-certified
and affordable products."



## Under New Contraceptive Technology Innovation Initiative, Strengthening and Building Strategic Partnerships is Priority



GOAL: To develop strategically important, long-acting contraceptives with a strong focus on global partnerships to ensure access to affordable and acceptable quality products for those most in need



