



**PerkinElmer<sup>®</sup>**  
*For the Better*



**75**  
**YEARS OF**  
**MAKING**  
**LIFE BETTER**







**Cumulatively 415 Million babies have been screened with PerkinElmer products**

**By the end of 2012 198,328 newborns have been identified as having a life threatening disorder**

**In 2012 34M babies were screened with PerkinElmer products**

**In 2012 20,154 babies were given the chance at a healthy start they deserve – this is 55 babies every day!**

# NBS Milestones

**1961**  
Robert Guthrie  
Creates first  
NBS test for  
PKU

**1976**  
Genetic  
Disease Act  
& Med Dev  
Act  
Promise  
funding and  
reliable  
NBS  
devices

**1990s**  
David  
Millington  
and Donald  
Chace MS/  
MS  
utilization in  
NBS

**2008**  
NBS Saves  
Lives Act  
Est grants  
for follow up  
care &  
public ed

**2012**  
NHGRI &  
NICHD  
propose  
genomic  
analysis for  
NBS

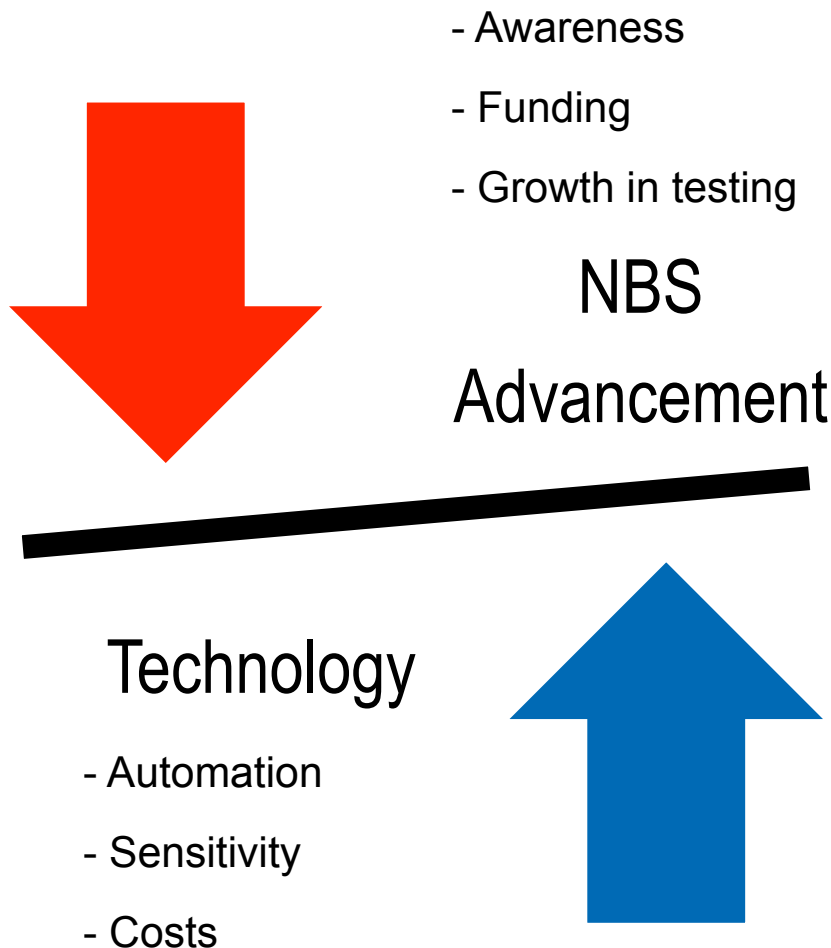
**1963**  
Mary Efron,  
MD  
Helps  
develop  
mass  
screening  
methods

**1988**  
Intl Society  
for NBS  
Forms to  
bring  
together  
NBS  
experts

**2005**  
ACMG  
Determines  
RUSP;  
SACHDNC  
endorses  
RUSP

**2010**  
SACHDNC  
Recommen  
ds SCID  
(1st  
molecular  
NBS test)

- **NBS has advanced dramatically since the 1960s**
- **Most states now screen for 27 of the 31 conditions recommended by the federal government (many states screen for 50)**
- **What has caused such growth?**
  - **Technological advancements**
  - **Increased awareness**
  - **Federal Action**







## 35 years of innovation and collaboration continues

PerkinElmer is the world leader and largest manufacturer of newborn screening instruments, reagents, sample collection devices, and software. PerkinElmer products have demonstrated proven performance and have been used to screen 413 million babies in 90 countries.

### Help in Crisis

Instruments and reagents contributions from PerkinElmer helped ensure uninterrupted newborn screening in Louisiana after Hurricane Katrina.

### Action in Partnership

Because of its acknowledged partnership with the Utah state laboratory, PerkinElmer was able to work with Utah in 2006 when the lab urgently needed to implement chronic hypothyroidism, cystic fibrosis, CAH, and galactosemia screening. No delay in reporting results were experienced.

### Advancing Screening for the Future

In 2010 PerkinElmer Genetics partnered with the state of California to provide a newborn screening service for SCID as part of the Genetic Disease Screening Program. To date, approximately 1 million newborns have been screened, 50 babies have been identified with SCID, and 15 have received a bone-marrow transplant.



## Reaching milestones together

- 1977 Gamma counters used for Congenital Hypothyroidism screening in Switzerland
- 1985 First newborn reagent kit launched in Europe
- 1993 First AutoDELFIA® instrument delivered to Italy
- 1995 State of Florida initiates newborn screening with AutoDELFIA test system
- 2000 Specimen Gate™ Software initial deployment for neonatal screening in Ohio
- 2001 NeoGram MS/MS reagent kit launched
- 2009 GSP® Instrument and GSP Neonatal hTSH reagent kit receive FDA clearance
- 2011 LSD screening offered at PerkinElmer Genetics
- 2012 Panthera-Puncher™ 9, next-generation puncher launched



ISNS is formed

SACHDNC  
endorses RUSP

SCID added to  
RUSP

NBS Sequencing  
RFA

Pompe added to  
RUSP

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- ***PerkinElmer provides screening solutions and capabilities globally***

Newborn screening for 2.5M  
babies in Russia and  
Kazakhstan



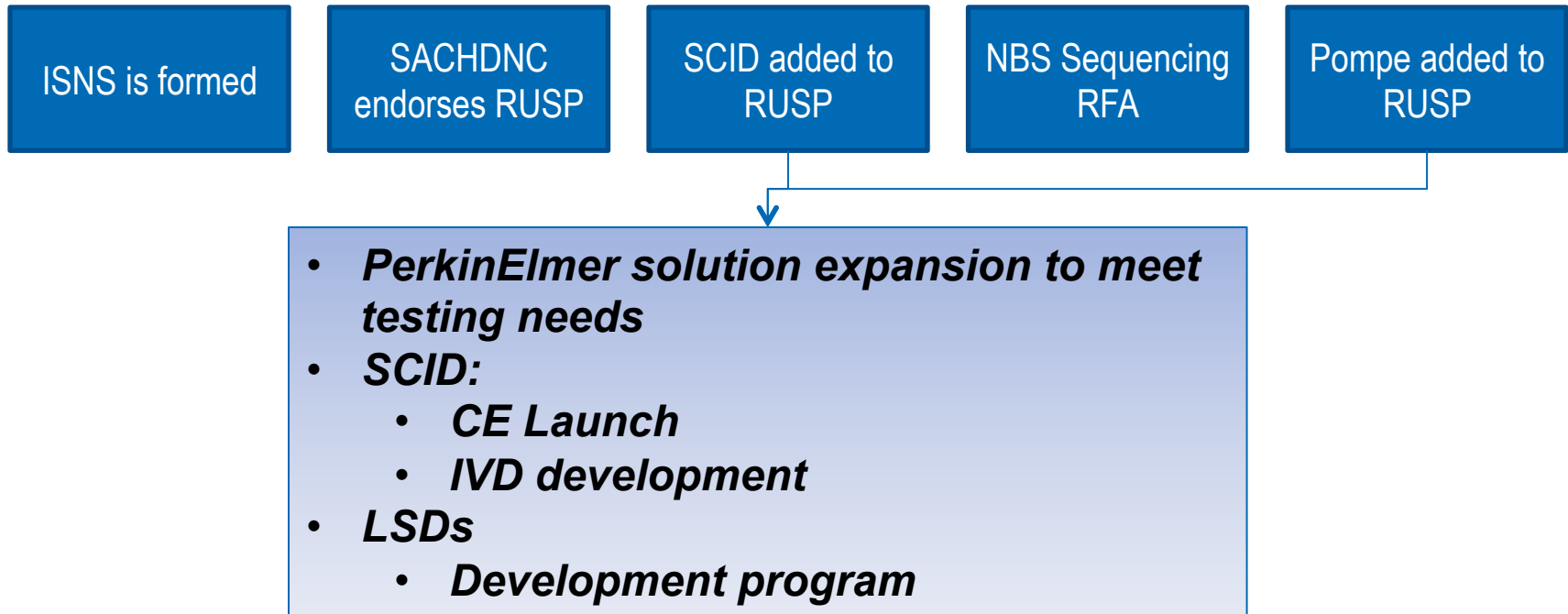
Newborn screening for  
450,000 babies in  
Saudi Arabia



Delivering China-made,  
competitively priced reagents  
for Tier 2 & Tier 3 hospitals in  
China







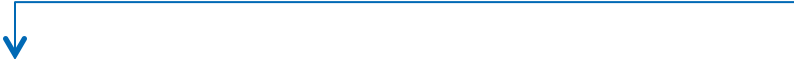
ISNS is formed

SACHDNC  
endorses RUSP

SCID added to  
RUSP

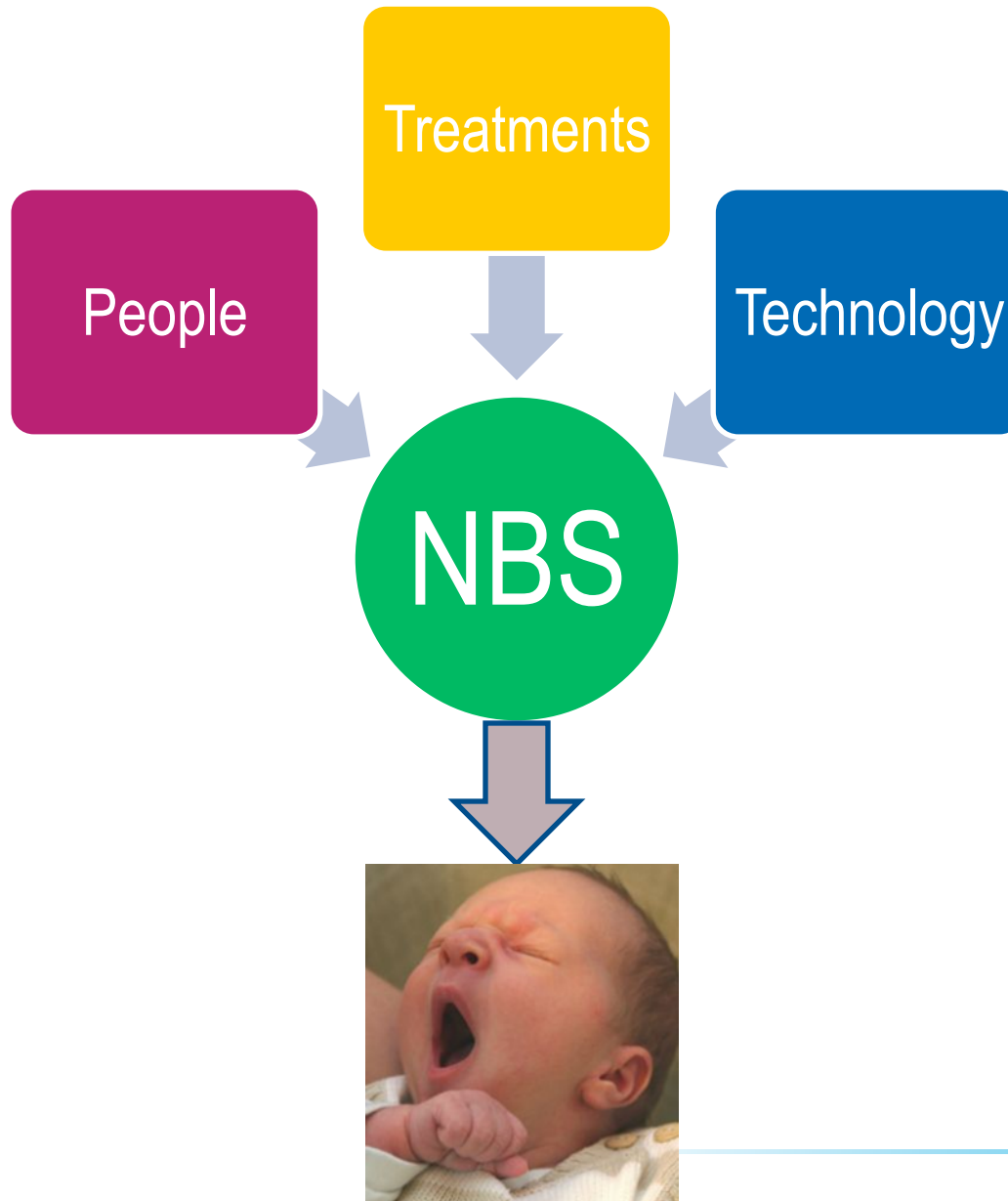
NBS Sequencing  
RFA

Pompe added to  
RUSP

- 
- ***PerkinElmer has a 2600 sq. ft. laboratory in Branford, CT dedicated to next generation DNA sequencing***
  - ***Contains all necessary equipment for high-throughput quality sequencing***
  - ***Provides clients access to state-of-the-art next generation sequencing platforms with seamless integration to robust data analysis***
  - ***CLIA Certified***



# What is Driving NBS?





Our mission...



PerkinElmer®

*For the Better*

*Dedicated to improving the  
health and safety of people  
and the environment*