



# Integrated Surveillance System for Nutrition Interventions in Nicaragua (SIVIN)

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# In the beginning

- **National nutrition program monitoring**
  - **Not timely**
  - **Content**
  - **Not making informed decisions regularly**
- **Available data suggested good coverage**
  - **Impact data collection warranted**



# National Micronutrient Surveys

- 1993 and 2000
- \$300,000 in 2000
- Large staff
- Multiple years to plan, implement, finalize
- High lab burden
- Process data collected, not timely



# **SIVIN Vision Established 2001**

- **Inter-agency mission late 2001**
- **MOH, USAID, INCAP, MI, CDC, UNICEF**
- **Overall vision**
  - **2001 System designed**
  - **2002 Pilot**
  - **2003 Implementation started**



# SIVIN

- **Centralized, modular, integrated management information system**
- **Collects and integrates process and biological impact data**
- **Four National Nutrition Interventions**
  - **Micronutrient supplementation**
  - **Micronutrient food fortification**
  - **Breastfeeding**
  - **Child growth monitoring**



# SIVIN: Monitoring Systems

- **Integrates monitoring at multiple levels**
  - **Factory**
  - **Retail**
  - **Health facility**
  - **Household**
- **Integrated existing monitoring systems**
  - **Strengthened when necessary**
- **Created new household data collection system**
- **Reduce cost and burden of monitoring**



# Household Data Collection

- **Annually representative process & impact data**
- **Continuous population based cross-sectional household survey collected throughout the year**
- **Continuous collection schedule**
  - 1 week every month
  - Complete sample collected after 12 months



# SIVIN

**Health Facility &  
Service Statistics**

**Internal  
Program  
Monitoring**

**National  
Household  
Survey**

**Integrated data base, analysis, reports, decisions and actions**





# Thank you

**The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the U.S. Centers for Disease Control and Presentation.**