



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 Prevention.