SOMAARTH -I
Demographic Development and Environment Surveillance Site (DDESS)

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SOMAARTH
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Philosophy

• To understand the impact of *development* and *change in lifestyle* on the health of communities.

• SOMAARTH ideology, envisions synergy between economic development, social changes and health of the individuals, families and communities.
SOMAARTH DDESS
Plan for rapid infrastructure development

KMP Expressway would be approachable from five National Highways: NH 1 near Kundli (Sonepat), NH 10 near Bahadurgarh, NH 8 at Manesar (Gurgaon), NH 71B near Tauro (Meoat) and NH 2 near Palwal (Faridabad).

The 50-km Manesar-Palwal stretch will be ready by November.
SOMAARTH DDESS

- 80 Kms from Delhi
- Site characteristics:
  - 51 Villages (~316 Sqkm)
  - 3 Blocks (Hathin, Palwal & Hodal)
  - 200000 + populations
  - No of Land Parcels: 47,125 (26417 R+18173 NR+2535 Mixed)
  - No of Households: 32,750
  - No of Non Residential units: 19,373
  - Dominant communities: Jats, Muslims, Gujjars and Brahmins
  - Variation in water quality, agriculture pattern
SOMAARTH
Health Infrastructure

Public health system
• District Hospital - 1
• CHCs - 3
• PHCs - 2
• Sub-centers - 12

Private health system
• Referral care facility - Palwal
• Smaller facilities - Hodal & Hathin

• Qualified practitioners - 2
• Informal practitioners - 284

• SOMAARTH Clinics - 4
Activities at SOMAARTH

• Community linkage
  - Community partnership model

• Linkage with the Government and Departments
  – Catalyze program service uptake

• Specific SOMAARTH activities
  – Listing and census of households
  – GIS map preparation
  – Specific projects in operation

• Social mobilization to improve health outcomes
  – Public Health Awareness Lectures
    (SOMAARTH Jan Swasthya Sambad)
Current Status

- Listing of Land Parcels, households, and population – completed
- Mapping of the villages – completed
- Census of households – completed
- Geospatial Mapping
  - Map with geo-referencing of structures – completed
- Data Entry – completed
- Data Analysis – in progress
Collaboration with Government of Haryana

• MOU signed with Govt. of Haryana – 2012
• Coordination mechanism at District and State level
• SOMAARTH Team is part of District Development Review Board
• Active coordination with Departments
  - District Health Services
  - District Health and Family Welfare Society
  - District Education Office
  - District Information and Public Relations Office
  - District Agriculture Office
Currently ongoing projects

• Brain-to-Society diagnostic for childhood nutrition changes: 
  *Environment-life style-gene interaction*

• Social capital, networks and correlation with body fatness: 
  *Influence on body composition and eating behavior*

• Childhood pneumonia detection using mobile based technology

• Impacts of household sources on outdoor pollution at village and regional scales in India

Completed projects

• Childhood diarrhoea due to Rotavirus in infants.
• Neuro-developmental disorders among Children
• Influence of indoor air pollution on pregnancy outcome and newborn
• User- friendly Amoxicillin DT packaging for treating childhood pneumonia
Key Features of SOMAARTH

• Enumeration of physical environment
  o Not limited to only household survey
  o Includes non-residential structures

• Digitized Mapping of physical environment
  o Agricultural/non-agricultural land
  o Water bodies
  o Built environment

• Linking physical environment with health and socio-economic parameters

• Use of novel data capturing and management process

• 100% paperless system (from 2015)
  o Data collection on android tablets
Activities at SOMAARTH
Data Collection in Field
Clinical and Laboratory Services
Community Engagement and Meeting
Visitors at SOMAARTH
The SOMAARTH Team
Thank You