



Implemented by



Malnutrition in Madhya Pradesh

Population: ca. 80 million

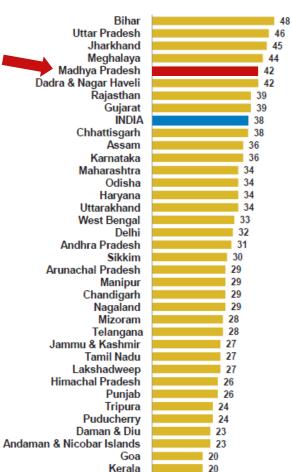
Children (under 5 years): ca. 11 million

Proportion of rural population: ca. 72 %

Prevalences in rural areas

- Women and men (BMI < 18.5 kg/m²): 31.8 % (NFHS-4)
- Anaemia in women (15-49 years): 53.7 % (NFHS-4)
- Wasting (under 5 years): 20.8 % (CNNS)
- Stunting (under 5 years): 40.6 % (CNNS)

Stunting in Children (0-59 months) by State/UT (in %, NFHS-4)



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Challenges of Anganwadi Workers

Anganwadis (AWW) are social workers, employed by Department of Women and Child Development (government staff)

- Knowledge gaps on adequate nutrition
- Variation in education level but high native intelligence
- Lack of access to further training (in remote locations)
- 7 modules, each 160 pages of content = cognitive overload

Why e-Learning tool?

- AWWs are responsible for the health/nutrition of women and children at local health centers. However, lack access to structured and standardized training possibilities.
- To fill in this gap, the GIZ FaNS project, together with the department in Madhya Pradesh, developed an interactive eLearning training platform, called *Anganwadi Shiksha*, to help systematically build AWW capacity.



Features of the e-Learning training platform



Open source



40 hours of e-Learning



Real life local scenarios



Gamification of e-learning -Videos, games and quizzes (4,259 sketches and 807 animation sequences)



200 randomised assessment questions

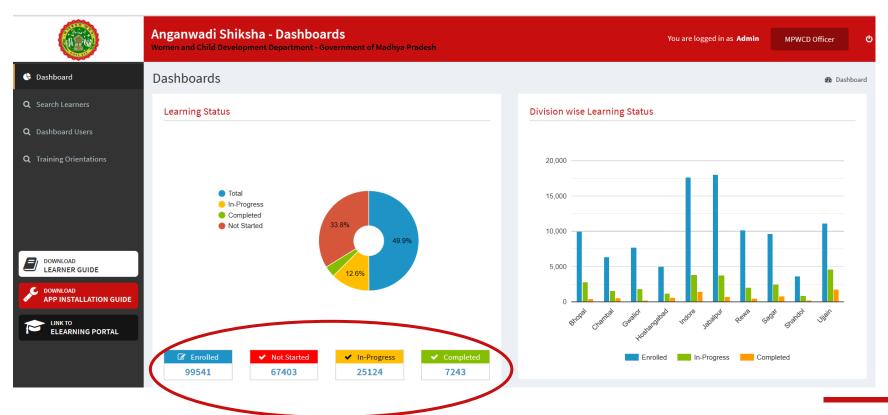


Certificates are provided on successful completion





Dashboard in e-learning platform



Aim of the Effectiveness Study:

- To assess the effects of the e-learning digital tool on the capacity-building of front-line workers
- To assess if there is any need for modification of content, design and user-friendliness of the elearning platform
- To understand the implementation challenges and ways to overcome in the next phase of sustainability and roll-out



Methodology of the Study

Mixed method study used to collect data.

- Quantitative Questionnaires: n=105 intervention, n=100 control, with themes to capture information.
- In-depth Interviews:
 with 9 supervisors and 2 district-level
 officials (n=11) to understand
 perceptions and challenges.
- Focus Group Discussions:
 n=6, comprising 6-8 AWWs each, to
 gain in-depth insights into their
 perceptions, problems.







Key Findings: 1. Knowledge Enhancement

 Completion of the course led to better awareness of roles and responsibilities as compared to control group

Table 2. LEVEL OF AWARENESS OF ROLES AND RESPONSIBILITIES

| Variables | Group | Mean ± std. dev. (SD) | t | Sig (p value) |
|---|--------------|-----------------------|-------|------------------|
| Providing health & nutrition education for women and children | Intervention | 3.5 SD 0.60 | 0.266 | 0.221 |
| | Control | 3.5 SD 0.67 | | |
| Counselling on breastfeeding | Intervention | 3.9 SD 0.35 | 1.017 | 0.034 |
| | Control | 3.80 SD 0.44 | | |
| Home visits | Intervention | 3.77 SD 0.44 | 0.484 | 0.312 |
| | Control | 3.74 SD 0.48 | | |
| Encouraging community participation | Intervention | 3.67 SD 0.49 | 1.012 | 0.022 |
| | Control | 3.60 SD 0.58 | | |

2. Content, language and Visuals

- e-learning modules are comprehensive, systematic, local scenario based and in accordance with roles and responsibilities of Anganwadi workers.
- Assessment at the end of each module acted as reinforcement to appraise performance and learning.
- 92% said the content was easily understood and 99 % the language was comprehensible.
- 61% said they acquired more knowledge and skills than in other training programs.
- 64% said the information provided on the platform went into greater detail than classroom training.





3. User friendliness

- Overall can be easily maneuvered through contents.
- E-learning is limited in its use by illiterate workers- unable to maneuver smart phones.
- Familiarity with feedback mechanism and live dashboard is limited with AWWs and Supervisors.
- 65% said it took them less effort to learn using the eLearning platform.



4. Issues with Implementation

- Communication gap Ambiguous information was provided to workers that platform will be inaccessible after certain time period
- Internet connectivity- poor network connectivity did hamper spirit of AWWs, limited information that offline version is available
- Limited technical assistance during the one-day orientation and the instructional insufficiencies experienced by supervisors
- Handholding support/ strategic orientation/provision of user-friendly manual on MIS login, feedback mechanism, technology-based support to systematically address the implementation challenges
- Need to create a system of knowledge sharing and to improve grievance redressal mechanism of AWWs and supervisors
- Not everyone had access to smartphones

5. Further study on operational feasibility could be planned after full roll-out

Conclusions and Way Forward

- eLearning course could fill a capacity-building gap and enhance the knowledge and counselling skills of front-line workers.
- The content of the e-Learning training was appreciated by the learners, as it was visual and local-scenario based.
- Still a need to systematically address implementation gaps, especially communication at the last mile.
- Recommendations to include content on 'counselling of men and other members of the family' and admission to nutrition rehabilitation centers (NRC)
- platform provides an opportunity to train frontline workers with a minimum of resource mobilization and to ensure quality training through a medium that front-line workers find interest.



Upscaling and replication

e-Learning platform

- Can be adjusted to other states in India and countries retaining basic content
- Can be used on any other Learning Management System
- Adapts to complementary learning with other available approaches in India like Incremental Learning Approach (ILA)

Reach in **Madhya Pradesh**: 97,000 Anganwadi Workers and 3,200 Supervisors

Upscaling in **India**: 1.4 million Anganwadi Workers





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Thanks for your attention!

Dr Archana Sarkar (archana.Sarkar@giz.de)





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