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- 2. Selective Delivery Information (SDI)
 - 3. Transfer of Technology
 - 4. Farmer First & Last (FFL)
 - 5. Farmer – Back – To - Farmer
 - 6 .ParticipatoryTechnology Development

1. Unated Nation Development program (UNDP)

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$$n = N \frac{(t.s)^2}{Nd^2 + (t.s)^2} \quad : \quad)$$

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$$d = t \frac{s}{\sqrt{n}} = 2 \frac{0/45}{\sqrt{253}} = 0/06 \quad (\text{PTD})$$

$$n = \frac{(2 \times 0/45)^2}{115(0/06)^2 + (2 \times 0/45)^2} = 188$$

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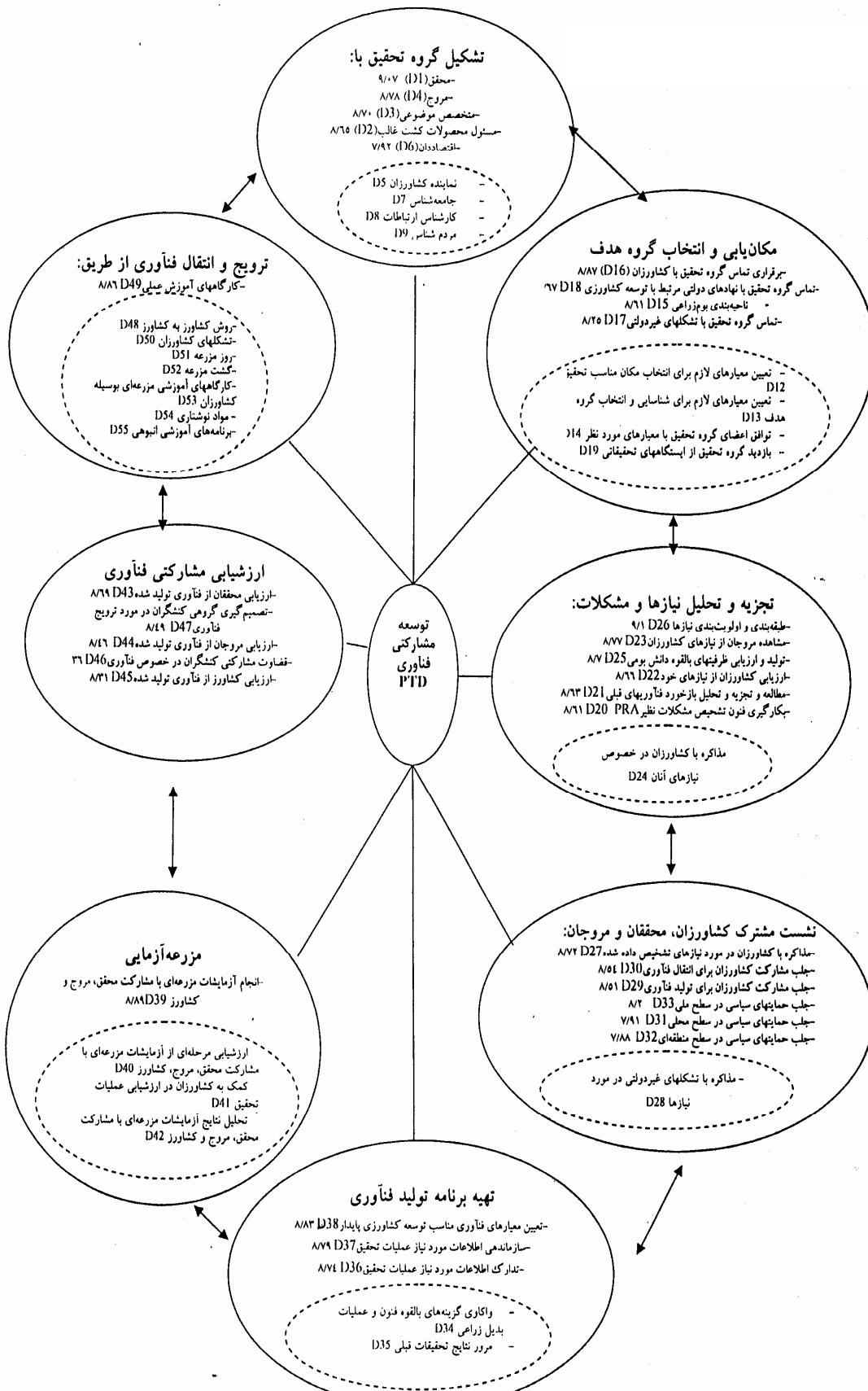
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REFERENCES

5. Bechstedt. H. D. 1997. Introduction into Participatory Monitoring and Evaluation PME in On-farm Research. AFRICA LAND Mnagement of upland soils Network. Network Document No. 21. IBSRAM, Bangkok.
6. Bechstedt. H. D. 2002. Participatory research and technology development for sustainable land management. IBSRAM. Training manual. IBSRAM, Bangkok
7. Bechstedt. H. D. 2000. Socioeconomic Diagnosis for the Evaluation of Sustainable Land Management.IBSRAM Training Manual, IBSRAM Global Tool Kit Series No.4 .IBSRAM, Bangkok.
8. Chakravarty,D. 1995, Power and Participatory Development: Theory and Practice. Intermediate Technology Publications, London.
9. Chambers,R. 1997, Rural Appraisal: Rapid, Relaxed and Participatory, IDS, Discussion paper No. Institute of Development Studies, Brighton, Sussex, UK.
10. Chambers,R. 1994, Challenging the Professions: Frontiers for Rural Development. Intermediate Technology Publications, London.
11. Chambers,R. 1998,Farmer First: A practical paradigm for the third agriculture, Brighton, Sussex, Institute of development studies.
12. David,R. et al. 1999. Participatory Action Research and Social Change. Ithaca.Cornell University.
13. Horne, P. & Stur. W. 1998. Participatory Approaches to Agricultural technology Development in Sloping Lands.. Food & Fertilizer technology center. An international information center for farmers in the Asia Pacific Region.
14. 14.Horne, P. & Stur. W. 1999. Participatory technology development (PTD). Food & Fertilizer technology center. An international information center for farmers in the Asia Pacific Region
15. 15.Swanson, E. B. 1997. Improving Agricultural Extension, Strengthening research – extension farmer linkages. FAO. Rome.
16. Werner,J.1998, Participatory Development of Agricultural Innovations. Procedures and Methods of On-farm Research. GTZ, Eschborn.