







Old Networks Planning Procedures

Planning locally

- > Forecasting based on the company elastic plan
- ▶ Experience based planning
- No planning tools
- Project is within a month

□ Foreign Consultancy

- Detecon, Telstra, NTT, France Telecom
 Collected data are not always reliable
- ▶ Huge cost



Software Tools and Methodologies

Tools

- ▶ PlanITU
- ▶ NTT
- Telstra

Methodologies

- Forcasting for voice services
- ▶ Circuit based networks dimensioning and optimisation
- ▶ Shortest past algorithm for PDH and copper cable networks
- ▶ ITU-T approach is the bible



RIPT Experiences on Network Planning (1)

Training courses

- Abroad

 - Full support from DGPT Vietnam 4.10.1993 -19.11.1993: training course in Bandung 16.11.1995 -17.02.1995: Workshop in Delhi

- Vietnam
 20.03.1995 07.04.1995; Training course in Hanoi
 3 DGPT participants and 10 VNPT participants
 20.05.1996 25.05.1996
 2 PRT, 4 VNPT, 1 DGPT and 2 RIPT
 07.1999; Strategic Planning and Development Workshop (Part 1)
 09.1999; Strategic Planning and Development Workshop (Part 2)



RIPT Experiences on Network Planning (2)

■ 1997- PlanITU Application on Designing SDH network

- Software tools from the training courses
 Benefits from using PlanITU
 Approaches to overcome the PlanITU drawbacks
 Sliding windows

sulisation by using AutoCad and MapInfo

■ 1999-Present

- NetPlan development
- VNPT permission
 Hanam local networks planning project
 Sharing experiences
 RisTI (Indonesia)
 ATI, TOT (Tubland)
 Papaa New Guinea, Cambodia, Laos, India
- Papua New Guine
 NetPlan updating



RIPT Experiences on Network Planning (3)

□ Why NetPlan?

- > Network planning is a critical and challenging tasks for all network operators
- > Rapid advancement of new networks technologies and the introduction of advanced services pose new challenges to network
- ▶ Commercially available network planning tools are usually expensive
- Currently used tools are incapable of handling new technology, such as ATM, and not user-friendly
- A unified suite of planning tools as NetPlan is needed



Planning in the past

RIPT Solutions to a New Vision of Networks Planning

- Human resources development
 Updating methodologies for network planners
 Training for P&T network planners
 Good selection of network planning tools
 Commercial tools
 Monormagnical tools
- Regular update to NetPlan (will be presented)
- > Sharing the expertise
- Project management
- International publications