

Administrative Systems and Institutional Infrastructure



Some Key Considerations for ICT System



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ICT Systems - Key Issues

- □ Why ICT?
- Stakeholders
- **Gaining Support**
- Institutional Responsibility
- Institutional Capacity
- Business Operations Model
- Organizational Architecture
- ICT Function
- HR Function
- Environmental Support Issues





Are We Sure?

- Reason(s) for system should be defined
- □ Scope should be **crystal clear and realistic**
- Estimated impact should be assessed
- Gains should be clear and quantifiable
- Development cost justified & underpinned by details
- Cost of on-going operation & maintenance should be calculated





Stakeholders

- Identify stakeholders and involve them
- Does system require inter-institutional support (e.g. unified collection of tax & contributions)?
- Where will database be managed? (e.g. Ministry vs Executive Agency)
- Who will access database?
- Who is owner of the data?





Gaining Support

- Political support necessary?
- □ Support from top management is VITAL
- Understanding & involvement from middle management CRITICAL
 - Advantages for middle management must be sold
 - Why change the case should be watertight
 - Who wins and why (who loses?)





Homework First.....

Institutional Impact Assessment

- Align with Strategic Operations Plan
- Assess impact on Governance System
- (Re)Define Business Operations Model
- (Re)Define Organisation Architecture
- (Re)Define Service Delivery Model





Homework First.....

Institutional Impact Assessment (contd.)

- Agree Resources (human, technical and financial)
 for new Business Operations Model
- Develop Risk Plan impact on existing services during development
- Existing ICT systems cost implications for cessation?
- Existing ICT contracts with suppliers cost implications?





ICT Function > Organization Structure

- □ ICT often at wrong level in institution
- □ Re-position at strategic level
- □ Implications for ICT function
 - integration with strategic management team
 - increase scope of responsibilities > new systems
 - re-organisation of ICT function
 - new management needed in ICT function?
 - new staff
 - up-skilling





Human Resources - Impact

- Audit of ICT and business skills analysis required
- □ Recruit new ICT staff or up-skill existing staff?
- Can ICT personnel (with the new skills required by a project) be fitted into existing grade & pay structures?
- □ Is outsourcing required? Where?





Human Resources - Impact

- Recruitment special methodology needed for ICT specialists?
- Training and Development new requirements, new specialisms
- □ Who trains? Where is training available?
- Budget extra staff, training/up-skilling





Human Resources - Impact

- Project Management
 - In-house capacity?
 - Contract in?
- Project Team capacity (training?)
- Contract in project team members?
- Project Management software & resources





Environmental Support - External

- Communications infrastructure?
- □ ISP providers?
- Technology environment can it support technology choice?
- Where will ICT experts be recruited from? (universities, technical institutes etc.)
- Role of external consultants





Environmental Support - Internal

- Physical infrastructure to accommodate ICT adequate?
- Reliable electricity supply?
- Backup system different location?
- □ Fire, water, theft and other hazards?
- Data Center? Cost?
- Paper archive? Migration
- □ Fall-back administration system?
- Legacy system keep or phase out?





Some Technical Considerations

- Chosen technology must be sustainable and affordable
- Chosen technology must be adaptable
- Enable de-linkage of back-office processing from frontoffice service delivery
- Keep data (and data validation rules & procedures) separate from regulation and business rules and from business data validation logic
- Keep related functions modular to enable amendments to be undertaken with minimum impact on related process software
- Combine similar functions across various benefit types

 single registration module, single database update
 module etc.



