

Guidelines on ICT

- from International Social Security Association (ISSA)

World Bank's Europe Central Asia Forum Implementation of MIS and Modernization of Social Programs Istanbul, 21-24.5.2014

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www.issa.int



Outline

- The ISSA at a glance
- ISSA Centre for Excellence
- ISSA Guidelines on ICT
- Implementation: challenges and solution approaches
 - The case on integrated social protection programmes.
- Conclusions





The International Social Security Association

- The leading international organization for social security institutions, departments and agencies
- Headquarters in Geneva (ILO)
- Founded in 1927, ISSA counts today 340 members in over 160 countries
- Provides information, research, expert advice and platforms for members to build and promote dynamic social security systems and policy worldwide













The ISSA at a glance

member organizations

countries

Founded in **1927**

1,500+

participants in ISSA events each year (average)

Staff in Secretariat

Liaison Offices and focal points

Technical Commissions





The ISSA Centre for Excellence

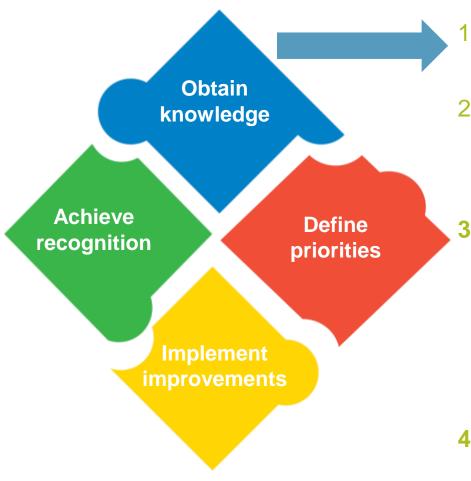
- New set of ISSA services to encourage, facilitate and support member institutions' work towards administrative improvements.
- Offers a package of services to provide institutions with practical support to overcome the four typical challenges:
 - To obtain the necessary knowledge to set the right objectives;
 - To assess gaps and needs, and define a prioritized action plan;
 - To implement improvement initiatives;
 - To evaluate progress and receive recognition for achievements.
- The services of the Centre for Excellence are based on the ISSA Guidelines for Social Security Administration.
- Find out more: <u>www.issa.int/excellence</u>



5



Steps to excellence



- 1. Select the set(s) of **Guidelines** important to your organization.
- Complete the online selfassessment, and receive a prioritized action plan.
- Implement the Guidelines.
 Connect with the ISSA Support
 Centre for advice and access to experts in your field

Participate in the ISSA **Academy** workshops for practical support.

 Evaluate your progress and gain ISSA recognition.





ISSA professional guidelines and standards



ISSA Guidelines

Information and Communication Technology



■ The ISSA guidelines programme

- Setting internationally-accepted professional standards
- Guidelines are connected to selfassessment tool and good practices

Guidelines for the following areas:

- Good governance
- Quality of social security services
- ICT in social security
- Actuarial standards and practices
- Contribution collection and compliance
- Investments
- Prevention
- Rehabilitation activities.





ISSA Guidelines on ICT - Context

■ICT is an indispensable enabler in social security systems:

- Often spells the difference between processes that can or cannot be done.
- It's a critical factor for political success, but also for failure.

■Growing complexity and *critical nature* of ICT in social security.

- ICT-based social systems increasingly sophisticated and "mission critical".
- High socio-economic impact of social programmes.

■Permanent evolution in social policies and programmes:

- Articulation, Coordination and Integration of social programmes.
- Preventive approaches to deal with error, evasion and fraud.
- Empowering users and promoting self-service capabilities.

Continual austerity and budget control:

 Increasing scrutiny on effectiveness and efficiency of ICT-related expenses.





ISSA Guidelines on ICT – Main goals

- Provide a framework to support the corporate application of ICT in social security.
 - Addressing not only technical aspects but also Governance and investments issues.
 - Referring to good practices and case experiences.
- Reinforce institutional capacity on applying ICT.
 - Provide the ICT staff with a comprehensive guide.
- ■Increase awareness of Board and Management.
 - Provide CEO, Board and Management with a high-level guidance about the main elements for effective and efficient use of ICT.
- ■Long-term → contribute to building common solutions
 - Standardized ICT-based approaches and solution for social security.





Guidelines on ICT: general structure

- ICT Governance and Management
- Investments on ICT and value Management
- > ICT Services Delivery
- Data and Information Management
- Key technologies:
 - Interoperability.
 - Data Security and Privacy
 - Mobile Technologies

More effective and efficient use of ICT, by aligning ICT strategy with the business.

More appropriately investing and contracting ICT products and services.

Better quality of ICT services, in order to meet the needs of the business.

More effective and efficient planning, control and exploitation of information resources along its life-cycle.

More effective implementation of integrated and citizen-oriented social security systems.



A. Governance and Management A.1. ICT Governance Guideline 17. Developing a master data model and system Guideline 1. ICT governance framework model, which standardizes the definition The institution develops a unique master Guideline 2. ICT governance processes External references and relationships (e.g. persons, employ A.2. ICT Management data system fosters the consistency of su Guideline 3. ICT strategy and innovation prospective DAMA Data Management Body of Knowledge (DAMA DMBOK) Guideline 4. Operationalizing social security functions through ICT The master data model should be of a highl DAMA: 2009 Guideline 5. ICT management processes programmes. The model can be viewed as t English. Guideline 6. Managing service continuity International programmes. On the other hand, objects as Keyword's? A.3. ICT Investment and Value Management included in the model (e.g. benefit payment available online http://www.nama.org/4w/pages/7pageid+7364 Guideline 7. Defining concept of value and approaches to optimize its rea Guideline 8. Managing ICT investments through a portfolio-oriented approx Master Data Management Book Structure Guideline 9. Monitoring and evaluation of ICT-enabled investments Losne: David 2000 A.4. ICT Service Delivery Engksh. The management should commission Guideline 10. Software development and application management covering the core objects for social Guideline 11. Implementing e-services available online http://mintebook.com/ characteristics of the social security Guideline 12. Managing technical support OWL, Web Ontology Language, W3C OWL Working Group Persons' data, including family t Guideline 13. ICT operations management Guideline 14. Service desk and request fulfilment Employers' data; Guideline 15. Managing events, problems and incidents Social programmes; A.5. Data and Information Management Relationships between persons and employers, working periods, etc.; Relationships between persons and social programmes (affiliation relationship), registration periods Guideline 17. Developing a master data model and system Good practices characteristics of the affil Guideline 19. Data quality management A specialized organizational Social Security Institution Data Bank Guideline 20. Mechanisms for information retrieval and analys Sosyat Güventlik Kurumu | Turkey | 2010 information system. To estab B. Key Technologies have to be well defined and Modernization and establishment of the 50 information system for better performance and fight against corruption TOTAL PROPERTY. The master data model and Social Insurance Institute | Albania | 2013 B.1. Interoperability institutional data govern Guideline 21. Institutional interoperability framework individual accounts project application model, interest Guideline 22. Workplan for the implementation of interoperability—ased Caisse nationate de retraite et de prévoyance sociale | Tunisia | 2011 implementation year: 2011 Guideline 23. Institutional interoperability application model institutional technical s Topics: Administration / Management, Compliance and contribution collection, Information and Guideline 24. Institutional semantic interoperability communication technology Guideline 25. Interoperable shared data services (basic registries) POP: ENTERIBETES Mechanism Guideline 26. Institutional technical standards on interoperability B----Electronic records management Caisse nationale de retraite et de prévoyance sociale | Tunisia | 2011 B.2. Data Security and Privacy The ICT unit should def Guideline 27. Management framework for information security Topics: Old age / Pensions, Administration / Management, Information and communication system. The project sho technology Guideline 28. Data privacy policies and regulations The project should ident POR: ENIFRIDEIES Guideline 29. Security measures for data privacy metadata should be dev The New Business Process in contribution collection Guideline 30. Comprehensive access control system Social Security and National insurance Trust | Ghana | 2011. Guideline 31. Security in database systems To ensure the accuracy implementation year: 2010 Topics: Administration / Management, Compliance and contribution collection, Information and Guideline 32. Security in networks and communication systems semi-formal language (e communication technology Guideline 33. Security in application development The implementation of a POF: EMITRIDETES Guideline 34. Security in ICT operations management systems B.3. Mobile Technologies master databases, specialized technologies have been developed for them. Guideline 35. Institutional framework for the application of mobile technology Guideline 36. Variety of mobile services to be provided ICT staff (in the main) should administer the master data system, and business staff should carry out data Guideline 37. Mobile device-based user identification stewardship and data specification tasks. Guideline 38. The கூடுந்த தெருட்டி as a gateway for payments and contrib Guideline 39. Using advanced hardware components included in mobile devices



Implementation: challenges and solutions

- Specific challenges in social protection / social security:
 - Integrated social programmes → Large-scale nation-wide projects :
 - Multiple instruments and actors.
 - For example: "Bolsa Familia" in Brazil, Argentina, Chile (SP+Health), Mexico, Uruguay (SP+Health), Thailand (Health).
 - May take several years and/or involve several industry providers.
 - → Modularized design and standards-based ICT strategy.

Input to the project's Conceptual Design:

- Medium & long-term perspective of social policy needs.
- Institution's ICT roadmap aligned to social strategies.
- Increase involvement of Gov. CEOs → "IT literacy"!

Improving effectiveness Industry/Gov. interaction:

Joint discussions on strategic aspects of ICT application.

Procurement:

Define the *value* of the project in terms of social and political outcomes.

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ICT Governance& Management[Guidelines]

ISSA ICT Industry Forum.

ICT Invests. and Value Managm.[Guidelines]



Implementation of integrated SP programmes

■Integrating social programmes → improve social policy application:

- Increase focus on beneficiaries combining required instruments.
- Improve coordination between different social protection components and involved actors. Reduce fragmentation.
- Improve monitoring and control (especially in CCT).

Implications and challenges:

- Connect processes/systems of different programmes/institutions.
- Relate heterogeneous data formats and concepts (e.g. household, head of family, unemployment status, etc.)
- Ensure Data Quality amidst diverse criteria and rules and data quality.
- Enforce security rules and privacy regulations.

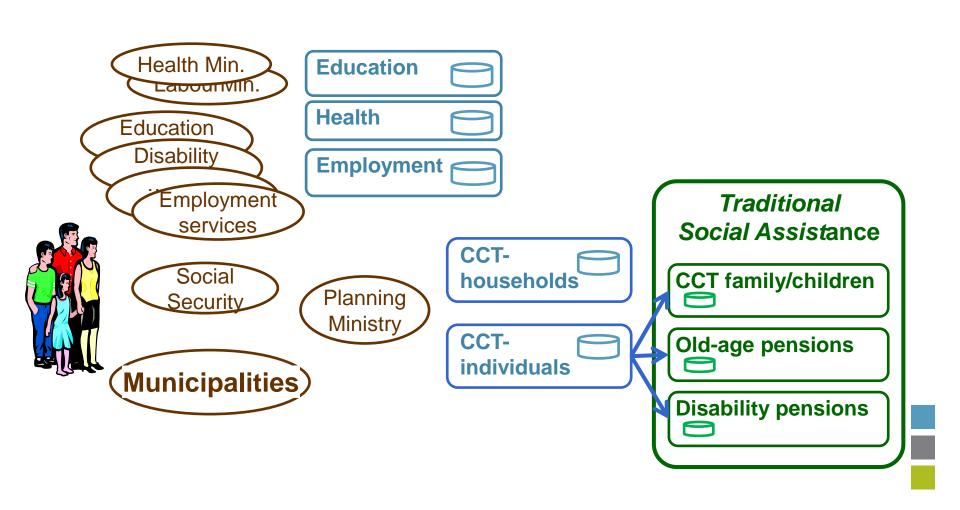
■Solutions (→ Guidelines):

- Interoperability.
 - Technical (systems)
 - Semantic (business concepts)
 - Shared data resources.
- Data Management:
 - Data Quality.
 - Data Governance.
- Data Security:
 - Data access control...



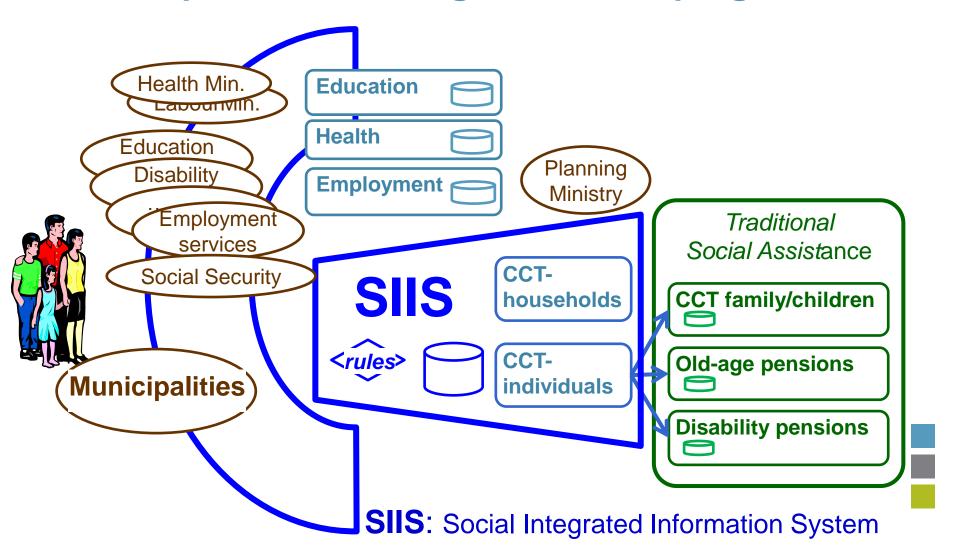


Example: Chilean integrated social programme



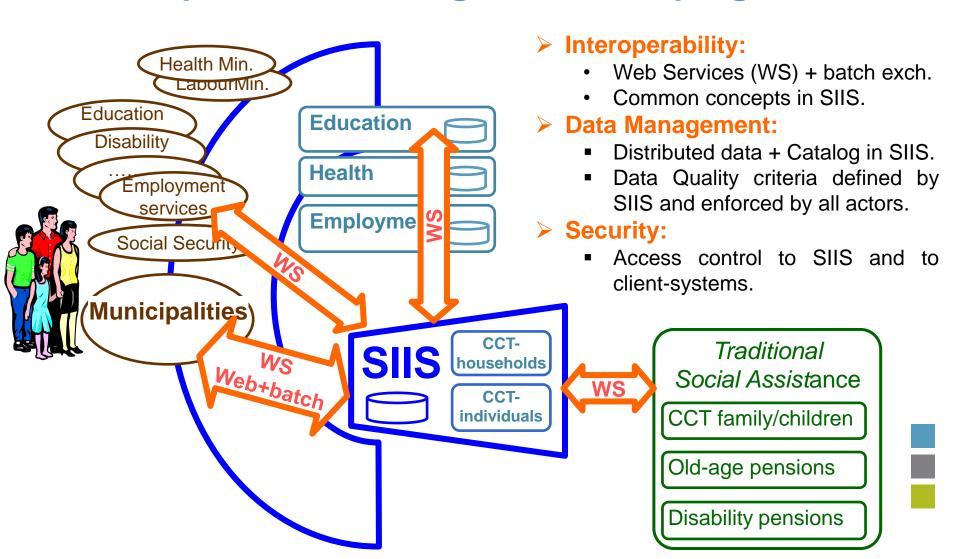


Example: Chilean integrated social programme





Example: Chilean integrated social programme





Conclusions

■Complexity and impact of social programme implementation:

- Require effective and efficient responses → Understand the essentials
- Manage evolution, twofold: social functions and technologies.
- Success factors:
 - Strategic plans: ICT strategy aligned with institution's social policy goals.
 - Industry/Government collaboration.

"Structural" issues and challenges in social arena:

- High costs, due to risks of large projects and low reuse of solutions.
- Few sectorial solutions and lack of standards supporting modularization.

■Towards common solutions and sectorial standards (SP/SS):

- Including relevant technical, methodological and experience knowledge.
- Provide a common framework and support to the SP/SS community.
- → Goals of ISSA Centre for Excellence and Guidelines on ICT:
 - Current developments: Master Data models and international agreements.





Thank you very much

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