

- Proposed Community of Practice for Health Insurance Information Systems
- Introduction to the JLN
- JLN IT Initiative work supporting insurance schemes



Proposed new Community of Practice for health insurance information systems



The Challenge:

- Globally, countries are expanding health coverage to more of their citizens through the development of national health coverage plans or schemes. Policies, implementation challenges, technologies, and models of universal health coverage (UHC) programs vary from country to country. Yet one challenge all national health coverage schemes face is the need for a comprehensive health management information system to operationalize the major functions of purchasing healthcare.
- Information systems that support the major functions of a health purchaser (e.g., enroll members, contract with providers, pay claims for health services delivered) are highly complex, costly, and critical for operating effectively at national scale.
- JLN country participants, as well as other global country representatives, have voiced an interest for knowledge sharing and best practices related to information technology (IT) solutions available to support health purchasers.



JLN CoP and Collaborative teams supporting health insurance information systems

Health Insurance Information Systems Community of Practice

Knowledge exchange on common challenges related to technology solutions supporting health insurance or purchaser organizations.

- Virtual activities including communications, networking connections, knowledge management, connections to resources and tools inside and outside of the JLN, webinars, virtual meetings, and facilitated online discussion boards.
- Open to anyone to participate

Common Requirements Collaborative Team

Country peer learning and co-development of knowledge products.

- A collaborative team of country participants will engage in in-person meetings to actively share country experience, document common health insurance business processes, and co-develop a common set of health insurance information systems requirements.
- Country participants invited or nominated to work together over a specified period of time to co-produce a specified output



Other potential topics to explore

Other topics that could be of interest to the Health Insurance Systems community and that could lead to deeper dives explorations:

- Electronic claims format(s)
- Implementing electronic claims
- Electronic payments for claims
- Business rules for claims adjudication
- Claims data quality
- Assessing health insurance software
 - Total cost of ownership
 - Considerations for build vs buy
 - Considering open-source vs proprietary software
 - Assessing software capabilities against user requirements
 - Implementation planning
- Best practices for automating claims adjudication

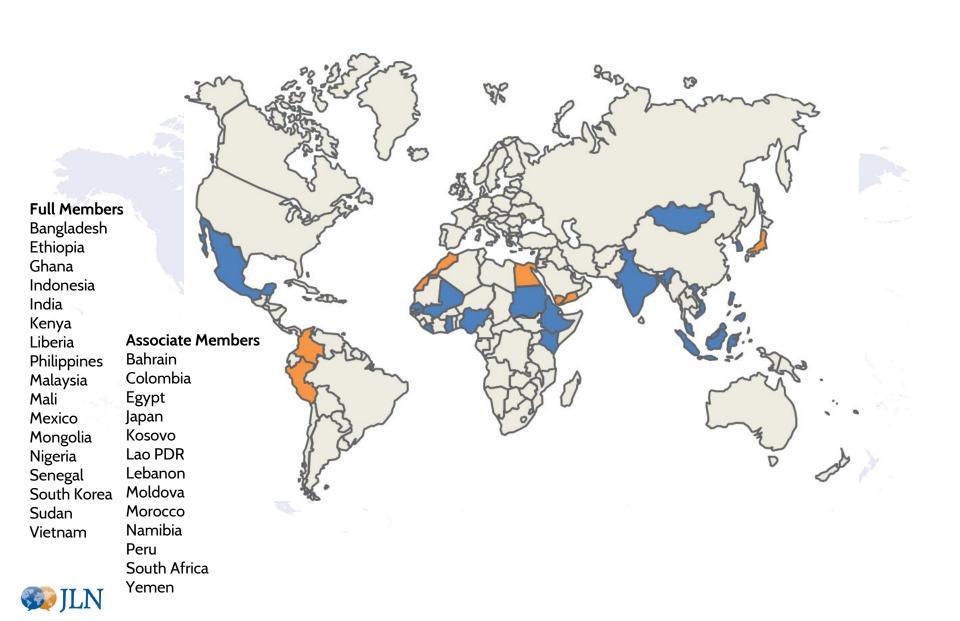




JLN Introduction



A Growing Network of Policymakers and Practitioners from 30 Member Countries



The Value of Country-Driven Joint Learning



- Centers on country ownership
- Highly relevant to countries' reform priorities
- Creates space to analyze root causes of UHC challenges
- Builds trust, safe space and community among members
- Results in practical tools and knowledge that can be shared and applied
- Creates opportunities for responsive follow-up by partners

The Joint Learning Approach

Practitioners engage in collaborative learning to co-develop global knowledge on the practical how-to's of achieving universal health coverage.



- 1. Identify a common challenge
- 2. Collectively problem solve
- 3. Synthesize new knowledge
- 4. Apply knowledge within JLN countries
- 5. Share knowledge globally



JLN's Ultimate Goal: UHC

Expand health
coverage to
reach target
populations,
especially the
poor and
informal sector

UHC for All:

Extend health coverage to more than 3 billion people and ensure financial protection

Promote financial sustainability of UHC systems

Increase access to and utilization of essential health services, especially primary care

Improve quality of care and patient safety



JLN's Focused Areas of Learning: Collaboratives and Exchanges

Primary Population Health Provider Information Quality Health Payment Coverage Technology Financing Care PHC **Domestic** Engaging the Data Medical Resource **Financing Private Sector Foundations Audits** Mobilization and Payment Measurement Efficiency for Improvement Learning Exchanges **Fiscal Policy** Health Instruments Benefits **Vertical Integration** for Public Policy Health Strategic Communications for UHC People-Centered Governing to Improve Quality Integrated Care





The JLN IT Initiative Tools and Resources for using ICT to support UHC



JLN Information Technology Initiative

The IT Initiative network is comprised of IT professionals from ministries of health and national health insurers working together to develop and share artifacts, knowledge, and tools that can be used by countries to develop and implement national health insurance information system plans.

2010 -2016:

 Funded by the Rockefeller Foundation



IT Technical facilitators: PATH and PharmAccess



2017 - 2018:

 Funded by the Bill & Melinda Gates Foundation



IT Technical facilitators: PATH and Wipro





What questions do countries have about how to use IT to enable and support UHC implementations?



- How do we operationalize the national scheme policy?
- How do we integrate multiple complex systems that may already exist?
- How do I transition my paper and legacy systems?
- Which information systems do we need to build first?
- Should I build or buy my own software?
- How do I choose among so many competing standards?
- What are the system requirements and constraints for different provider payment methodologies?
- How can I grow my internal capacity to manage these issues over time?



Our approach as Technical Facilitators

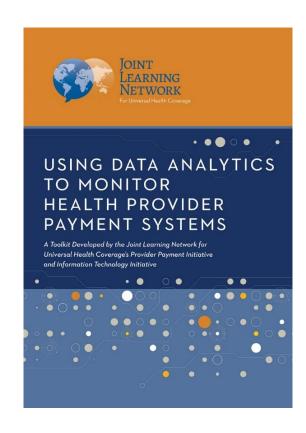
The IT Technical Initiative Approach.....

- Listen and learn from countries what are common and specific IT challenges they face in support of UHC.
- Create common reusable artefacts with the countries that can be adapted to local context faster and cheaper than stand alone.
- Facilitate joint learning opportunities focused on specific topics with a high level of interest and demand; and
- Provide direct support to countries to adapt global solutions to the local context.



Using Data Analytics to Monitor Heal Provider Payment Systems

- Monitor provider payment for trends, alignment with health system objectives, and alerts for unintended consequences
- Follow a six-step framework to select indicators, collect and analyze data, and use data for decision making
- Use guidance, tools, templates, resources, best practices, and real-life lessons from countries implementing provider payment reforms



Co-developed by the JLN's Provider Payment Initiative and Information Technology Initiative with Ghana, India, Indonesia, Kazakhstan, Kenya, Malaysia, Mali, Moldova, Mongolia, Nigeria, the Philippines, and Vietnam



Connecting Health Information Systems for Better Health

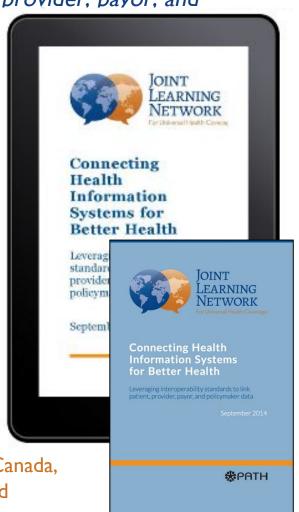
Leveraging interoperability standards to link patient, provider, payor, and

policymaker data

• An eBook reference guide for countries wanting to link their universal health coverage (UHC) and eHealth information systems using a standards-based approach.

- Illustrates how information and computer technology (ICT) may be employed to simultaneously support care delivery workflows, provider payment workflows, and the generation of health system management metrics and indicators.
- Provides step by step guidance to help select and specify the norms and standards needed to achieve national-scale system-to-system connectivity.

Co-produced by the JLN Information Technology Initiative with Canada, Colombia, India, the Netherlands, the Philippines, South Africa and Thailand

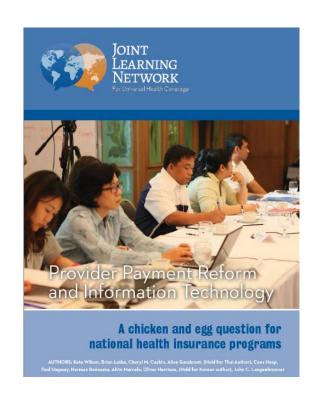




Provider Payment Reform and Information Technology

A chicken and egg question for national health insurance programs

- Provides a conceptual framework for understanding the IT requirements of various payment methods and the choices, trade-offs, and implications of various options
- Examines case studies from countries exploring the key enablers, policy and technical processes followed, and benefits realized
- Reports on lessons learned from these countries and a set of practical next steps for better incorporating investments in IT into reform plans

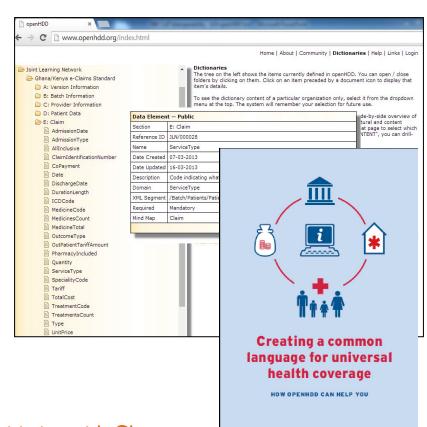


Co-produced by the JLN Information Technology Initiative with Ghana, India, Indonesia, Kenya, Malaysia, Mali, Nigeria, the Philippines, and Vietnam



Health Data Dictionary (openHDD)

- An HDD enables consistent, accurate, and systematic data collection and exchange.
- openHDD is a collaborative, web-based, open-source tool for creating health data dictionaries.
- Detailed "how to" guidance, standard terminology, and support for the data dictionary tool available to support countries working to make provider and payer information systems interoperable.



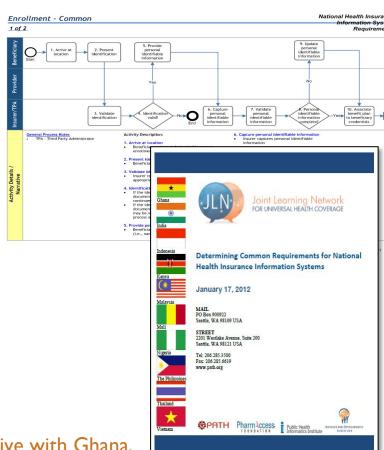
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Common Requirements for National Health Insurance Information Systems

- Draft, functional level requirements for the following health insurance processes:
 - Member enrollment
 - Premium collection
 - Provider management
 - Claims processing
- Functional requirements are statements that describe what an information system needs to do to support the tasks or activities of a national health insurance program.
- These requirements can be used by any country as a starting point on building/buying a new system or revising an existing one.
- JLN member countries worked together to develop this set of "common" functional requirements that other interested countries may take and adapt.

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A National Health Insurance Framework

Provides an overview of the actions and business processes covered in a national

health insurance system

Data provides

policy guidance

National policy regarding target population set by country

Scheme policy

Benefit package
Formulary
Provider rates
Eligibility requirements
Provider policy setting
Premium setting

Analyzing

performance Care management

Utilization management Provider quality management

Fiduciary fund management Actuarial management

Medical loss

Rules

Fundamental system "factory"

Beneficiary management

Provider management

Premium collection

Claims management

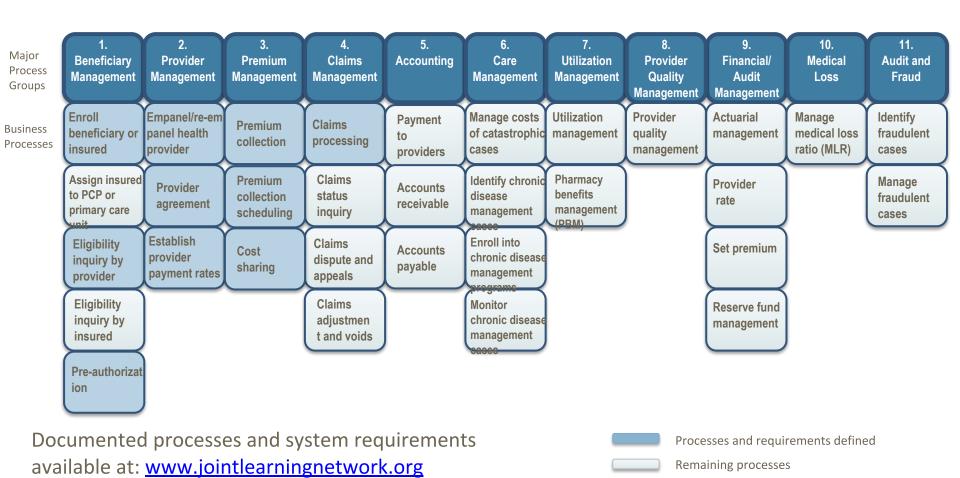
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Data & feedback
Change management

Source: Joint Learning Network



JLN Common Business Process Framework





Common Requirements Development Methodology (CRDM)

- **Domain** set of functions and processes that define the work of a specific area of the larger health system, i.e. health financing
- **2. Process Framework** set of processes that define the boundaries of a domain and the relationships between them and other systems and domains.
- **Business Process** A set of activities and tasks that logically group together to accomplish a goal or produce something of value for the benefit of the organization, stakeholder, or customer
- 4. <u>Activity/Task Model</u> visual representation of a business process in terms of tasks, sets of tasks and decision points in a logical workflow used to enhance communication and collaboration among users, stakeholders, and engineers
- **Sequirement** a statement that describes what an information system must do to support a task, activity or decision. These are non-technology statements that usually begin with "the system must or shall..."





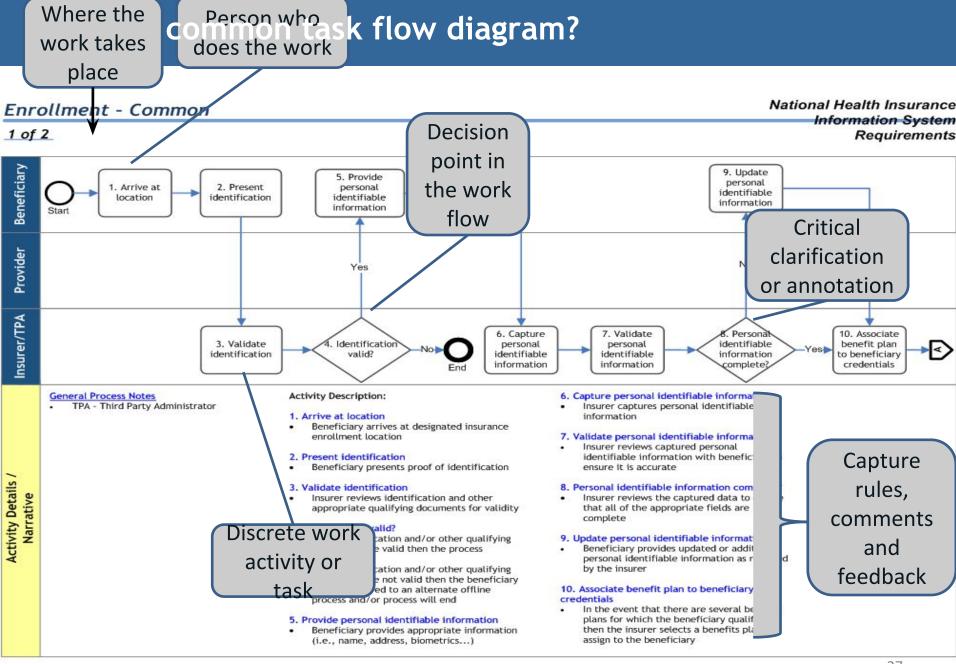
What is the business process matrix?

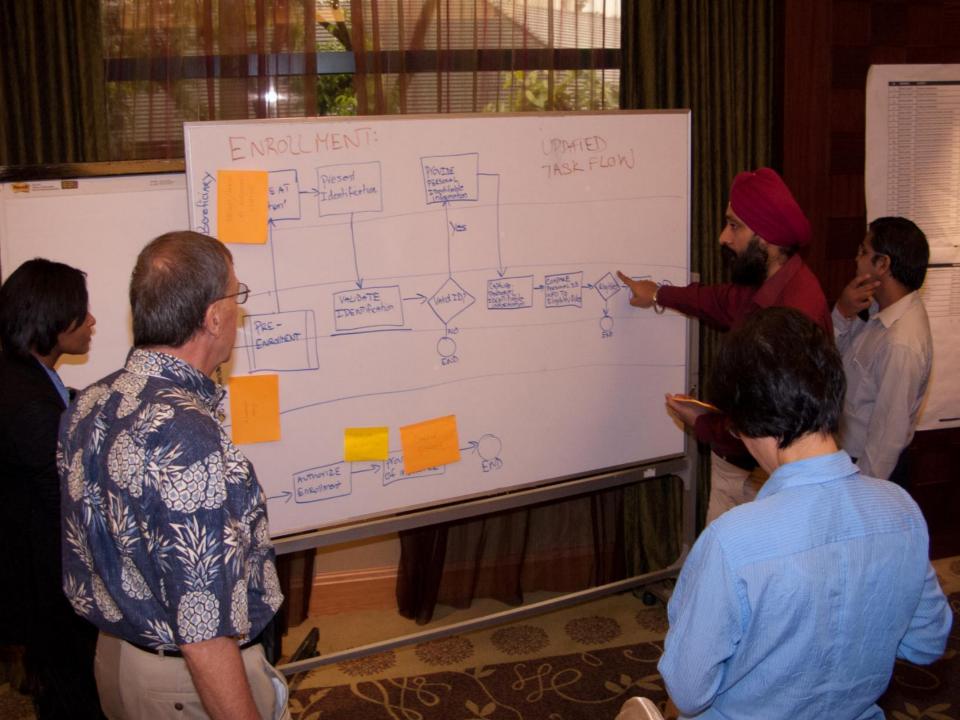
 Illustration of all possible inputs, outputs and tasks a system may need to perform for <u>consideration</u> purposes

REFERENCE NUMBER	PROCESS GROUP	PROCESS	OBJECTIVE(S)	INPUTS	оитритѕ	TASK SETS	MEASUREABLE OUTCOMES
2.1	Beneficiary Management	Enroll beneficiary or insured	Verify identity and eligibility in a timely manner of persons seeking access to benefits plan services	Demographics Financial information Geographic information Qualifying criteria (see qualifying conditions) Proof of identity (e.g., national identification card, personal identification number, biometrics information, photo) Medical history Current medical condition	Time-based eligibility determination Insured identifier Benefits plan number Benefits class Benefits plan detail Proof of coverage Feed into data repository	Validate identity documents Record information in data repository	Eligibility is determined as approved or rejected Approved person receives proof of coverage (e.g., identification card) Assign benefits class Benefits plan Accurate list of insured











What is a draft requirement catalog?

ID	BUSINESS	ACTIVITY	REQUIREMENT (The system must or should)
1	ELIGIBILITY	Search for insurance detail with alternate ID	allow provider to search for beneficiary's insurance detail with alternate identifier (i.e. name, DOB)
2	ELIGIBILITY	Search for insurance detail with alternate ID	allow provider to visibly see prompt for alternate identification method if ID presented is not valid
3	ELIGIBILITY	Capture insurance detail	allow provider to enter identification detail
4	ELIGIBILITY	Capture insurance detail	allow provider to enter proof of insurance detail
5	ELIGIBILITY	Capture insurance detail	allow provider to enter biometric detail
6	ELIGIBILITY	Capture insurance detail	allow provider to capture referral details
7	ELIGIBILITY	Validate Insurance	allow provider to validate identification
8	ELIGIBILITY	Validate Insurance	allow provider to authenticate biometric detail
9	ELIGIBILITY	Validate Insurance	allow provider to visibly see benefits plan assigned to the beneficiary
10	ELIGIBILITY	Validate Insurance	allow provider to visibly see beneficiary eligibility status
11	ELIGIBILITY	Validate Insurance	allow provider to clearly see the beneficiary's benefits plan details
12	ELIGIBILITY	Validate Insurance	allow provider to visibly see enrollee benefit plan statistical data (i.e. amount of money remaining)



