

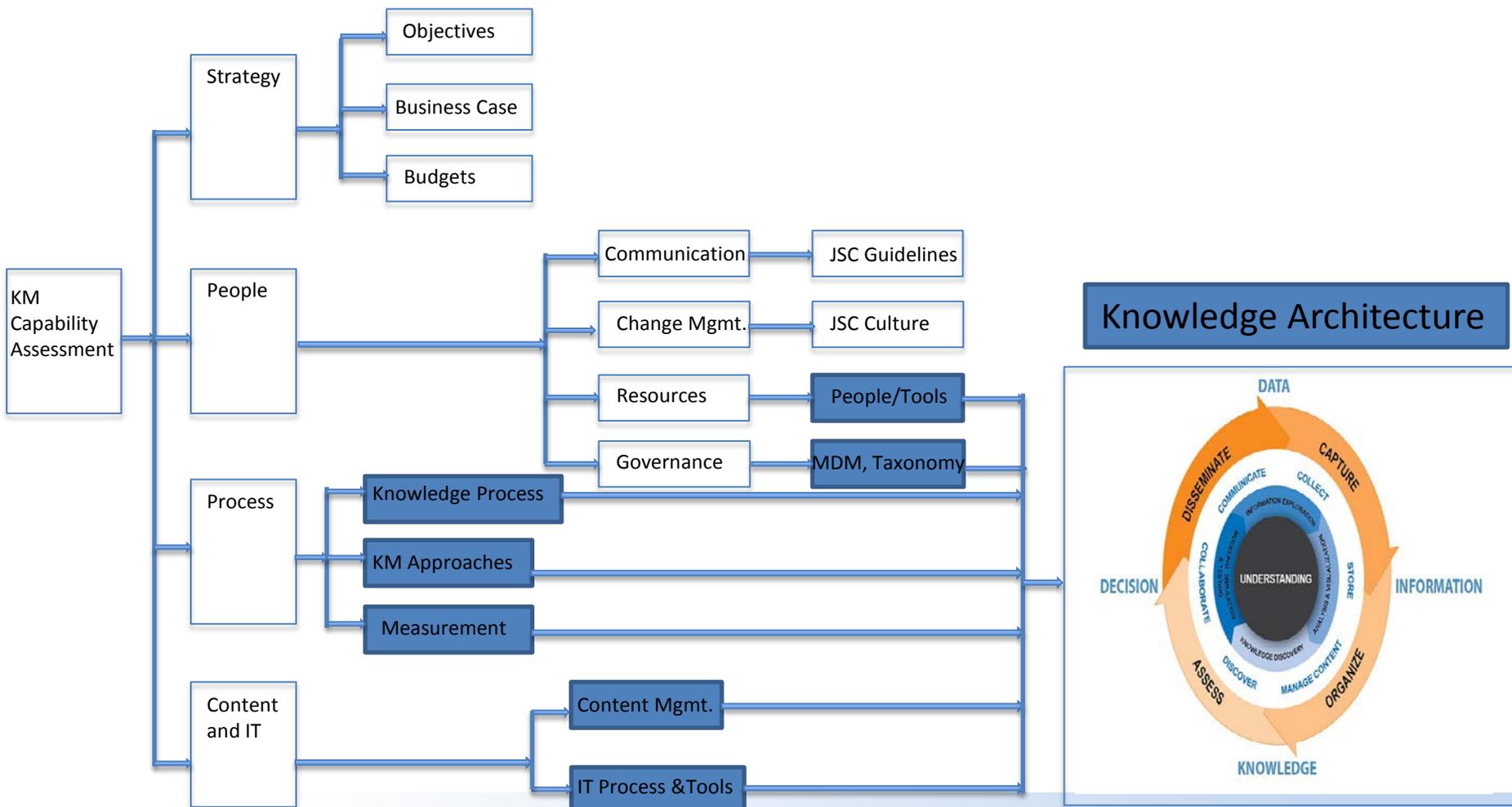


Office of the

CHIEF KNOWLEDGE OFFICER

JSC KM Strategy

JSC KNOWLEDGE MANAGEMENT STRATEGY





KNOWLEDGE ARCHITECTURE – KNOWLEDGE MANAGEMENT AND INFORMATION ARCHITECTURE



Sources:

- Sensor
- Experimental
- Computed (modeling & simulation)

Forms:

- Digital
- Text
- Visual

Organization:

- Structured
- Semi-Structured
- Unstructured

Functions:

- Governance
- Taxonomy
- Ontology
- Comm. Plan
- Operations Management
- Security
- Master Data Management
- Content Management
- Metadata
- Data Quality

Tools & Environments:

- Large scale storage
- RDBMS
- Parallel RDBMS
- NOSQL
- Hadoop

Organization:

- Structured
- Semi-Structured
- Unstructured

Tools & Environments:

- Computation & data access
- Data Mining
- Text Mining
- Optimization
- Net Algorithm
- New Algorithm
- Visualization

Access Pattern:

- Structured
- Semi-Structured
- Unstructured
- Predictable
- Unpredictable

Data Products:

- Predictions
- Models
- Visualizations
- Decision Analysis
- Wiki
- Search

Security, Data Quality, Workflow Management, Data Management, Resource Management

IT & Intellectual Infrastructure

WHAT IS KNOWLEDGE ARCHITECTURE



The people, processes, and technology of designing, implementing, and applying the intellectual infrastructure of organizations.

What is an intellectual infrastructure?

The poor neglected cousin of technology and organizational infrastructures
It is just the set of activities that deal with creating, capturing, organizing, visualizing, presenting, utilizing, understanding, the information part of the information age.

CHIEF KNOWLEDGE ARCHITECT



Work with Chief Knowledge Officer

- Build a Knowledge Culture

- Advocate, Evangelize

Design & lead integration of all the elements of the Intellectual infrastructure of the Enterprise

Design measurement and analytics of KM in organization

Define and lead the KA Team

Research New Ideas and Technologies

- Personas, Stories, Semantic Web and RDF, Cognitive Anthropology, Complexity Theory

STRATEGY



- Objectives
- Budgets

PEOPLE



- Communication
 - JSC Guidelines
- Change Management
 - JSC Culture
- Resources
 - People/Tools
- Governance
 - Master Data Management, Taxonomy/Ontology

PROCESSES



- Knowledge Process - OLP
- KM Approaches, oral histories, case studies, enhanced search, videos, gamification, data analysis, road shows, working groups, communities, expert finder, lesson learn
- Measurement – PUMP training

CONTENT & INFORMATION TECHNOLOGY



- Content Management
- IT Processes and Tools
 - Intellectual Infrastructure - set of activities for creating, capturing, organizing, visualizing, presenting, utilizing, and understanding, the information part of the information age.

FY 16 FORWARD WORK



- Data Science skill sets
- Data Management Governance
 - Master Data Management plan
 - Newly created data
 - Legacy data
 - Metadata criteria
 - Operations Management of data
 - Security coordination with OCIO
- JSC referee program
- Findability
 - Natural Language Query
- Communication Plan
 - Embed KM culture in programs and projects



QUESTIONS?

