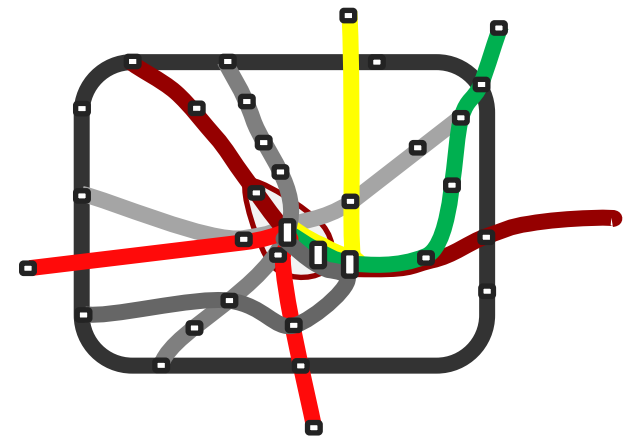


Research Data Literacy

or: Take a ride on the RDL Line!

Overview

- Information Literacy and Research Data Management
- Information Literacy and Data Curation Skills
- Building a Flexible Curriculum
- The RDL line



Information Literacy and Research Data Management

Research data management

is a method that enables the integration, curation and interoperability of data created during the scientific process, i.e. the production, access, verification, persistent storage and reuse of this data with the help of adequate and easy-to-use tools in virtual research infrastructures.

Data or Information?

- Research data management is interested in raw data from creation until extinction or archiving;
- Information literacy has always been interested in the proper understanding and use of data that - only through the ability to use it - is converted into information.
- The argument to recognize research data as information was proposed in the 2011 report of the Research Information Network;
- Data management and data curation can be seen as a logical extension of information literacy concepts

Data or Information?

- Both the data and the context create - due to their innate relationship - the famous “difference that makes a difference”.
- The problem of dissociation of data from its context is at the heart of the data management problem: if the context is lost, the reuse becomes difficult, if not impossible.

Information Literacy and Data Curation Skills

- Big 6 of Information Literacy as Essential Skills (Eisenberg)
- Seven Pillars of Information Literacy as a Core Model for Higher Education (SCONUL)
- DPOE curriculum: «Train the trainer program in Digital Curation» (established by the Library of Congress)

Essential Skills for

Research Data Literacy

Provide

Identify

Scope

Plan

Store

Protect

Evaluate

Manage

Information Literacy and Data Curation Skills

Big 6	Seven Pillars	DPOE curriculum
Clarify		
Locate	Identify	Identify
Select /Analyze	Scope	Select
Organize / Synthesize	Plan	
	Gather	Store
		Protect
Evaluate	Evaluate	
	Manage	Manage
Create / Present	Present	Provide

Allocation of Curation to Literacy Skills

RDL	Data Management Competences
Identify	Documentation (research environmental, temporal) / Context / From Information Management to Knowledge Management
Scope	Monitoring Process / Extracting Information from Data Models (and People)
Plan	Data Modeling / Meta Data / Standards Development
Store	Data Analysis and Manipulation / Merging, Mashing, Integration
Protect	Data Preservation / Data Security / Access Authentication / Conditions of Use / Data Legislation
Evaluate	Data Appraisal and Retention / Value of Data / Economic Issues
Manage	Complaints and Expectation Management / Coordination of Practice across Institution / Negotiation Skills / Risk & Disaster Management / Contingency / Advocacy, Promotion, Marketing
Provide	Facilitation, Communication / Raising Awareness

Building a Flexible Curriculum for RDL

	Provide	Identify	Scope	Plan	Store	Protect	Evaluate	Manage
2 hour unit	*	*						
Full course	*	*	*	*				
Full module	*	*	*	*	*	*		
Specialization	*	*	*	*	*	*	*	*
Full study	*	*	*	*	*	*	*	*

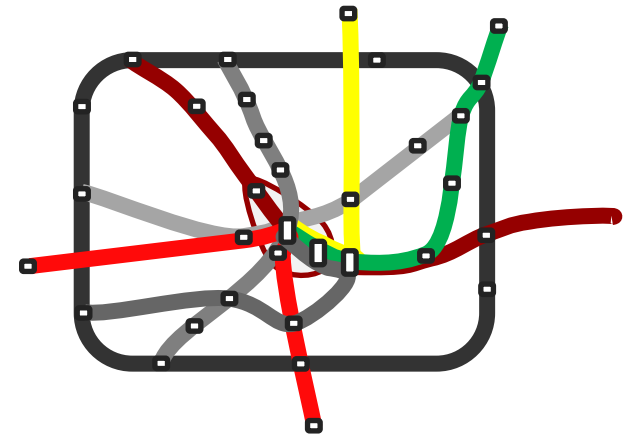
Building a Flexible Curriculum for RDL

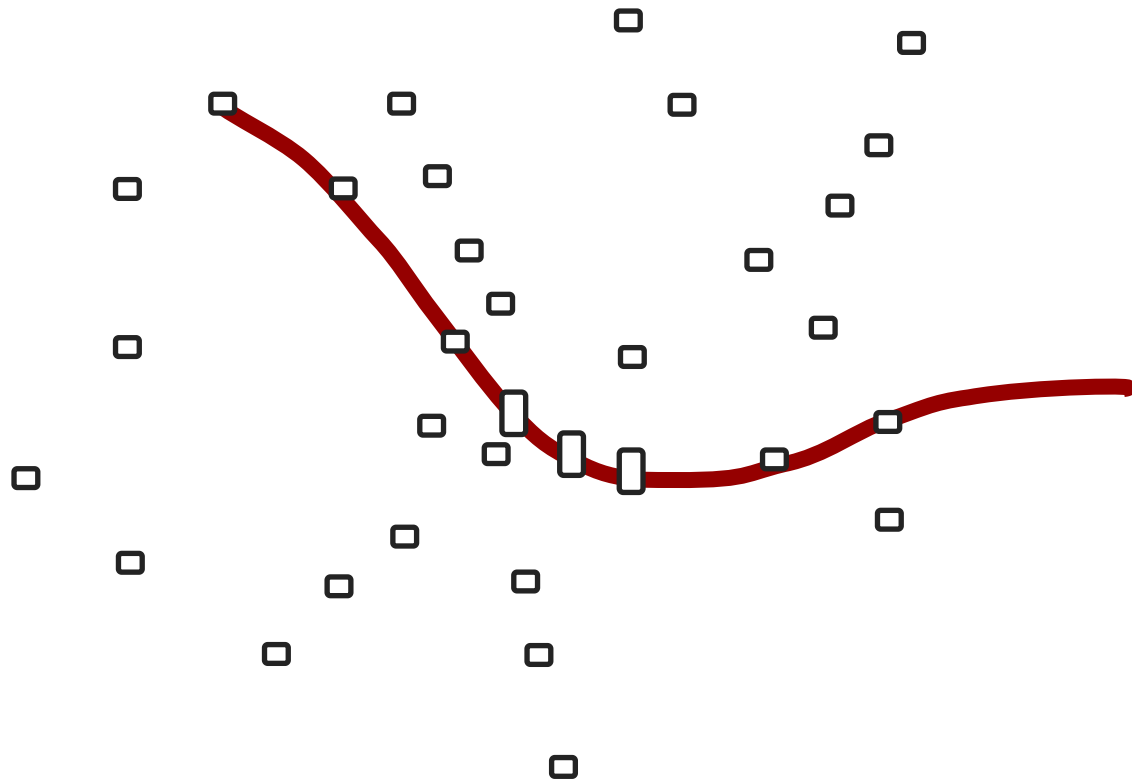
	2-hours unit	Full course	Full module	Specialization	Full program	Diploma
Any Bachelor student	+	*	-	-	-	-
Any Master student	-	+	*	-	-	-
LIS Bachelor Students	-	-	+	*	-	-
LIS Master Students	-	-	-	+	*	-
Data Creators	+	*	-	-	-	-
Data Scientists	+	*	-	-	-	*
Data Librarians	-	+	-	-	-	+
Data Managers	-	+	-	-	-	+

Take a ride on the Research Literacy Line!

Let's say that:

1. Literacy Skills are like Metro Lines
2. Curation Skills are like Stops





Provision Line

Promotion



Advocation



Raising
Awareness



Facilitation

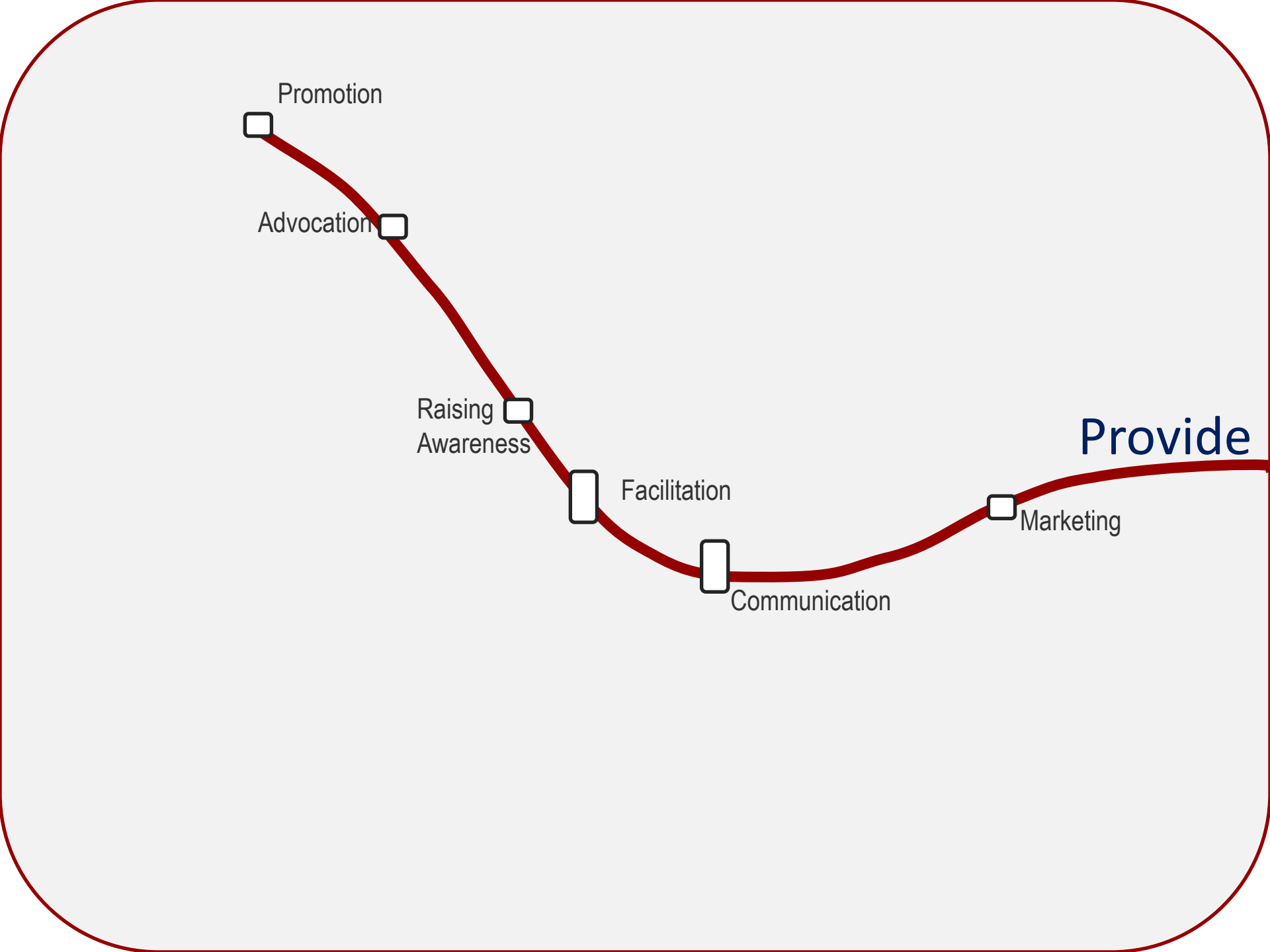


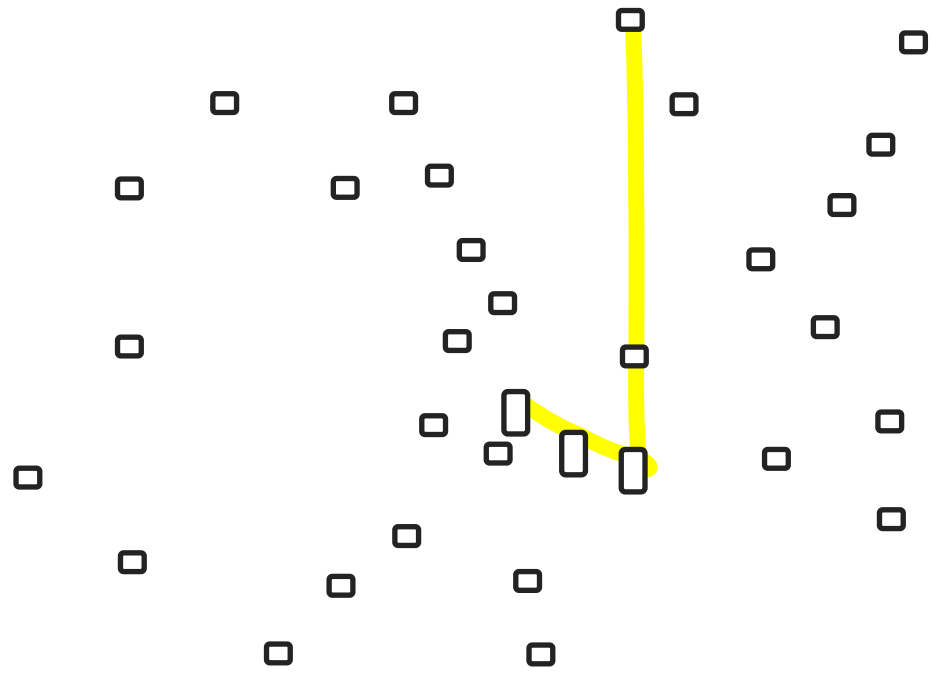
Communication



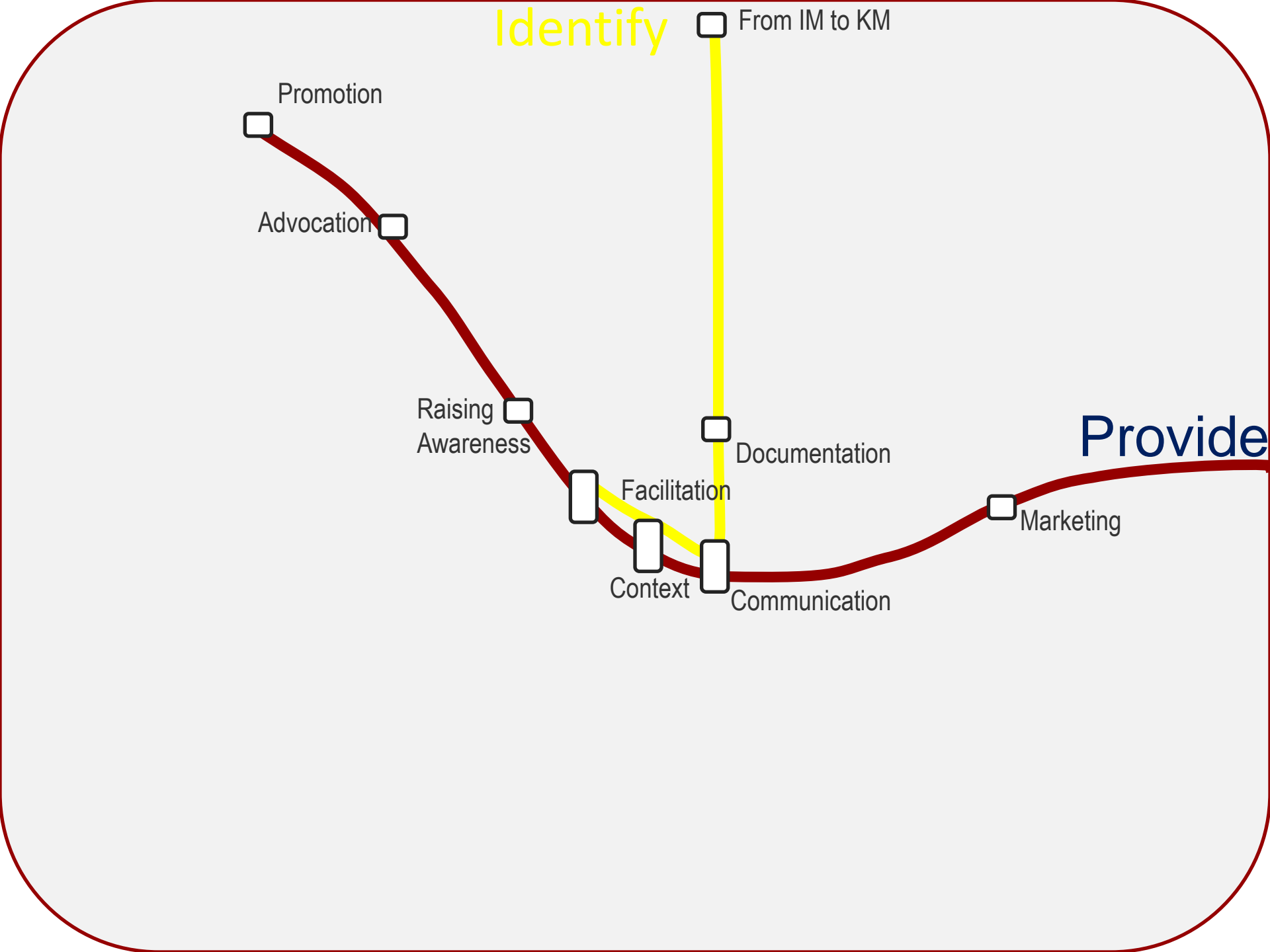
Marketing

Provide





□ Identification Line



Identify

From IM to KM

Promotion

Advocation

Raising Awareness

Facilitation

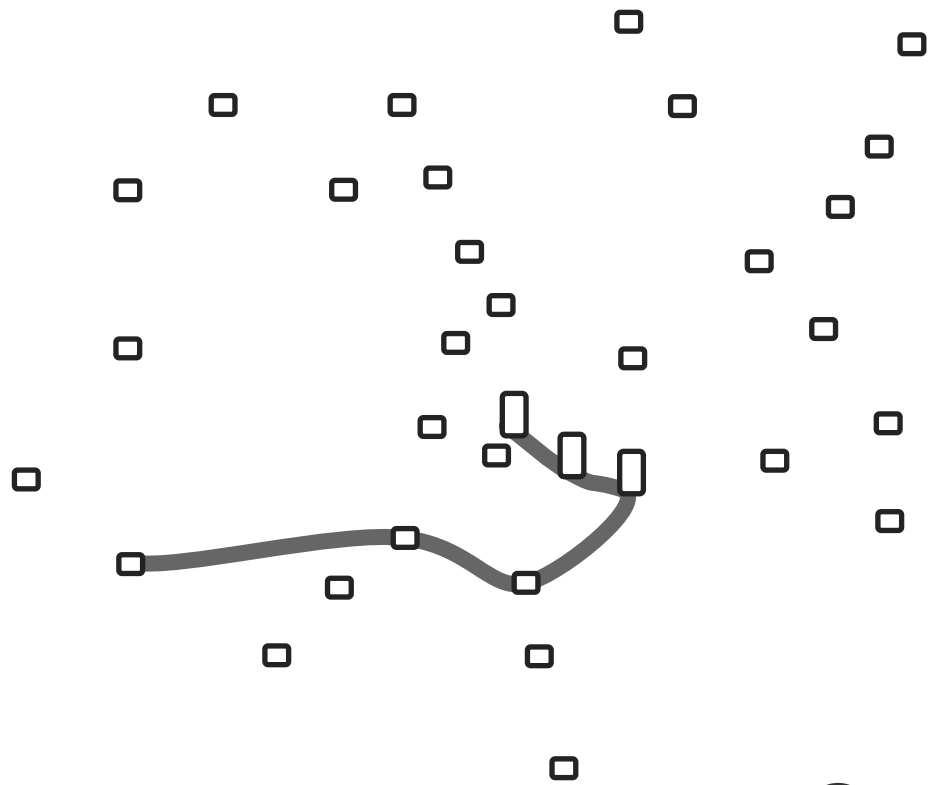
Context

Documentation

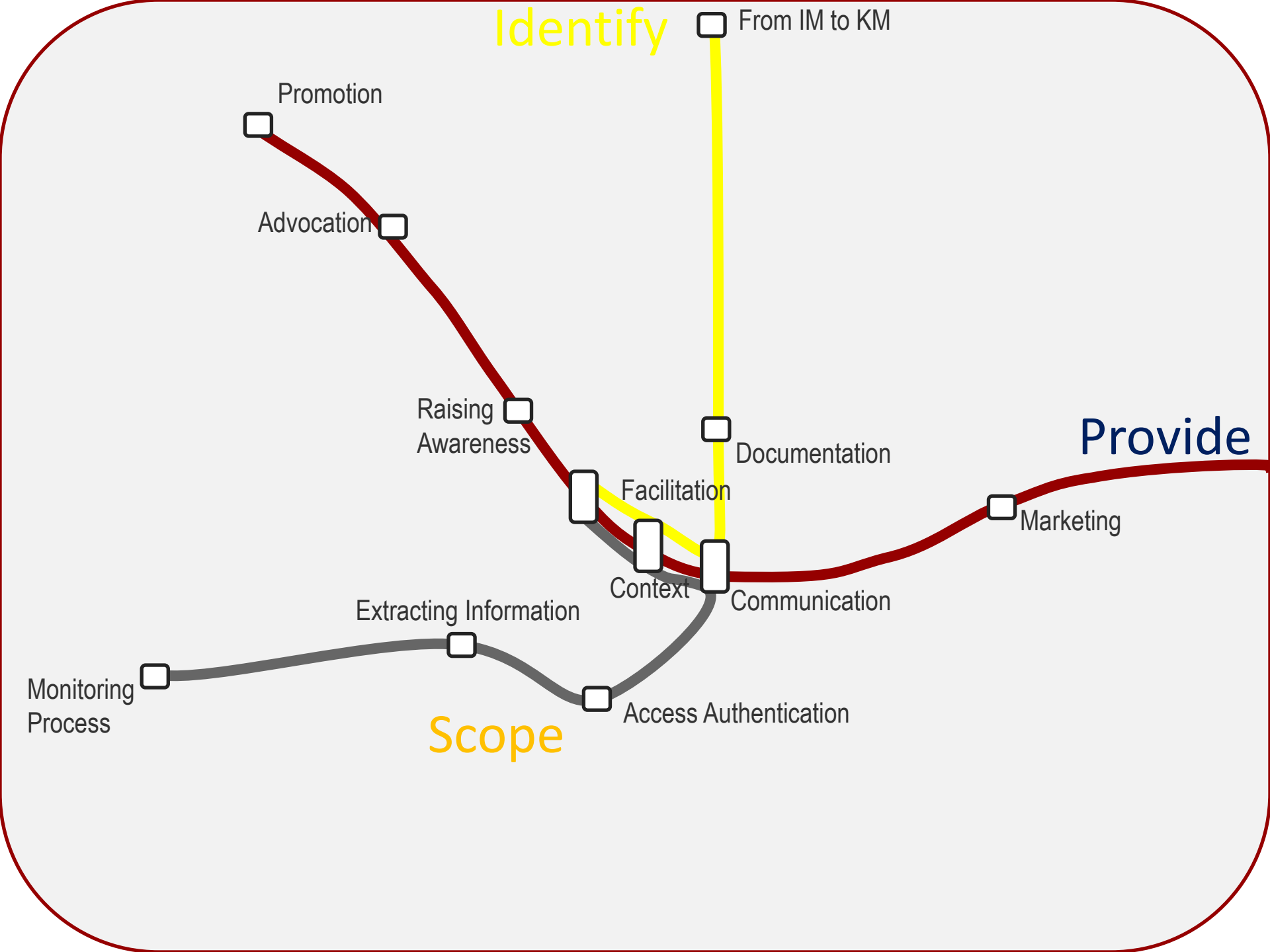
Communication

Marketing

Provide



Scope Line



Identify

From IM to KM

Promotion

Advocation

Raising Awareness

Documentation

Provide

Facilitation

Marketing

Context

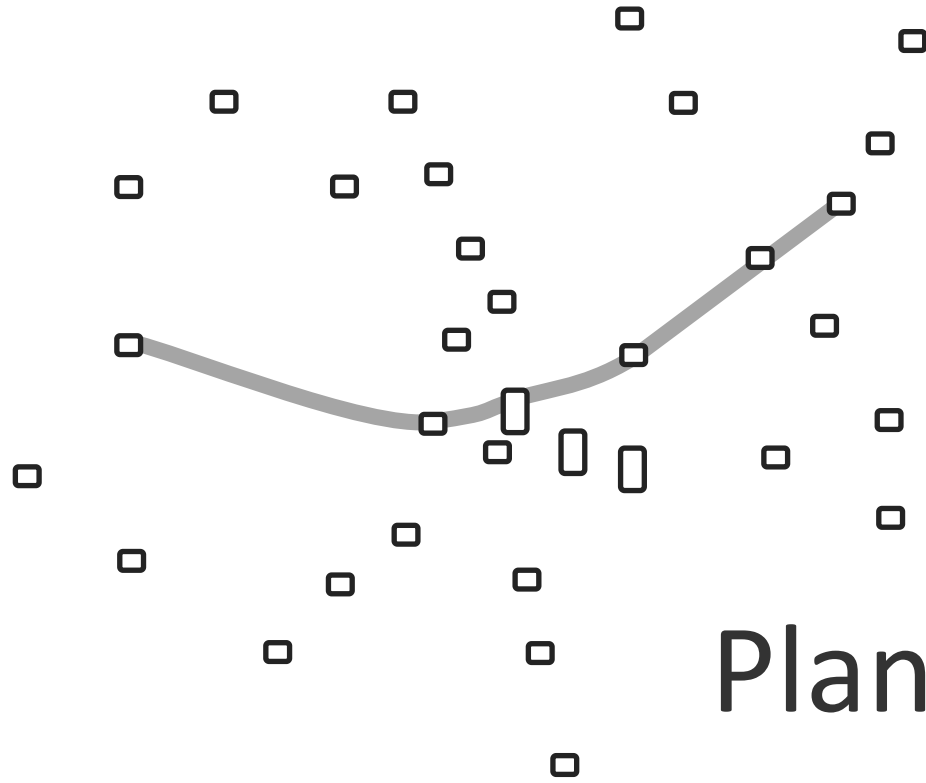
Communication

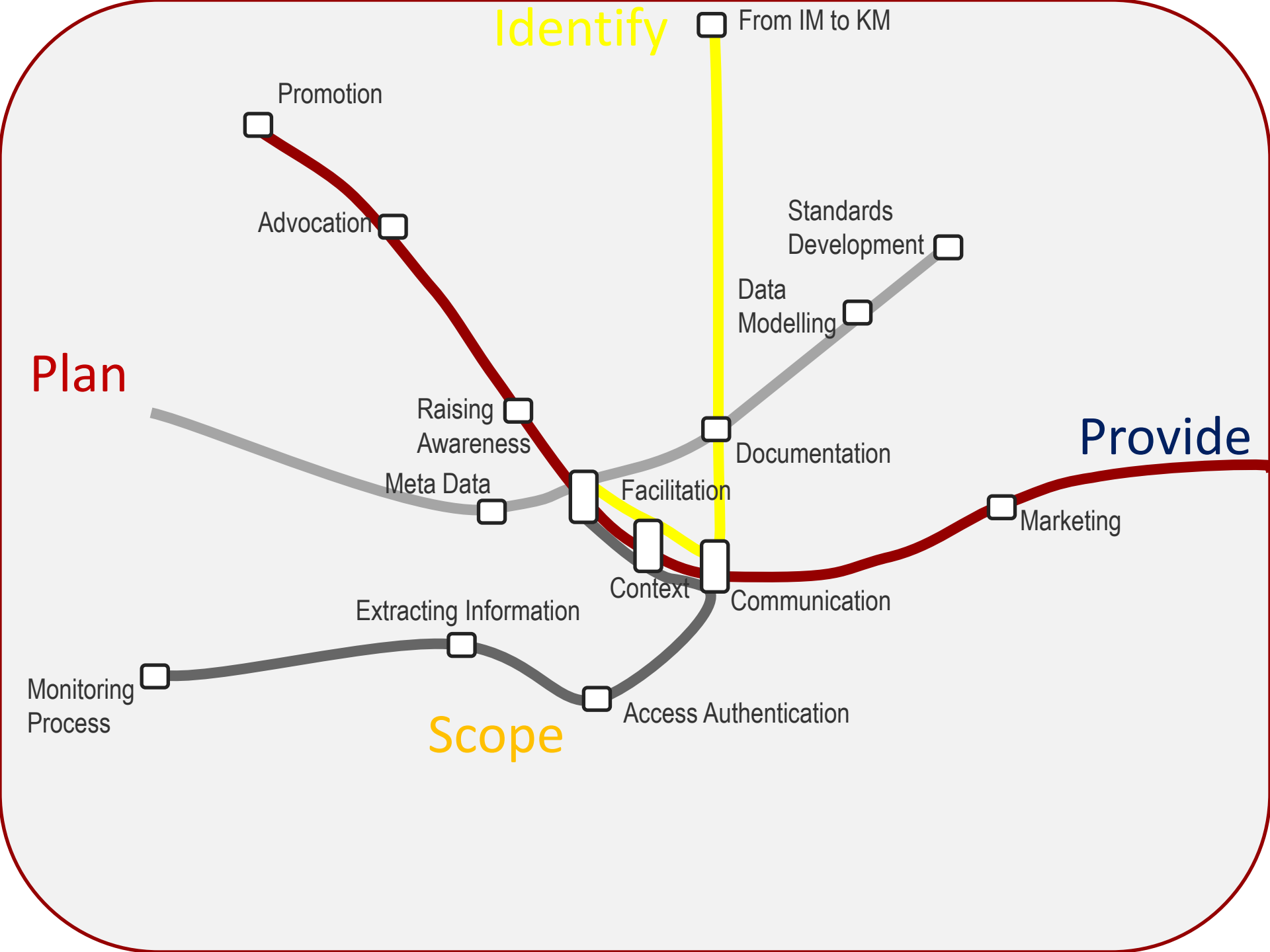
Extracting Information

Monitoring Process

Access Authentication

Scope





Identify

Plan

Provide

Scope

Promotion



Advocation



Raising Awareness



Meta Data



Extracting Information



Monitoring Process



Access Authentication



From IM to KM



Standards Development



Data Modelling



Documentation



Facilitation



Context

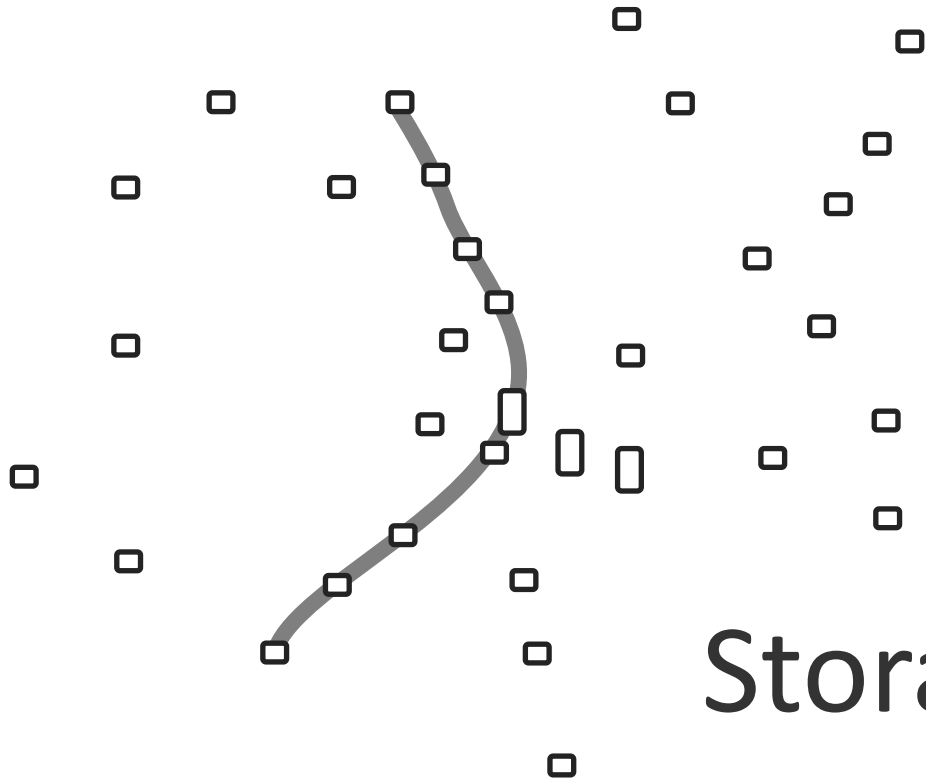


Communication

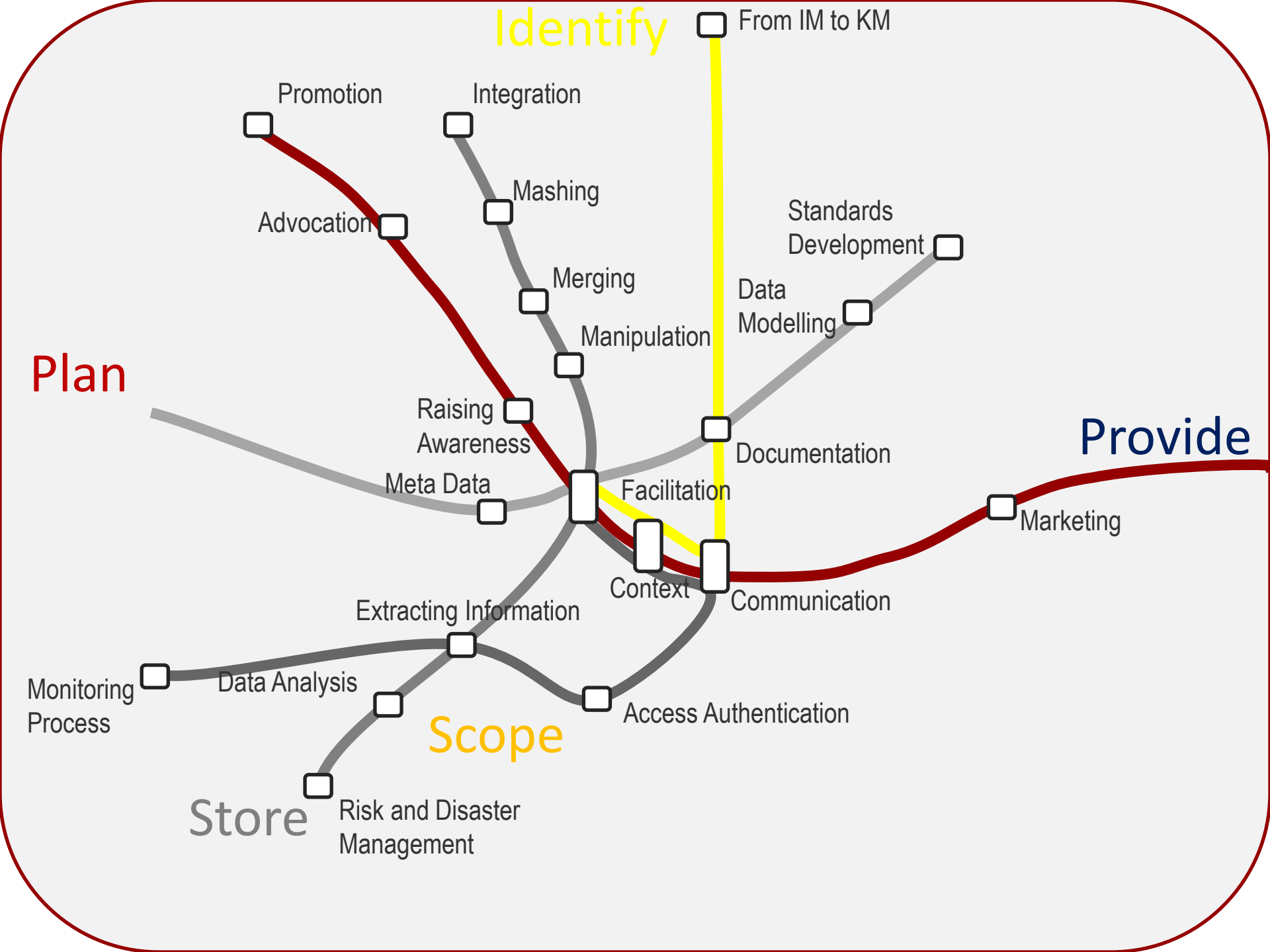


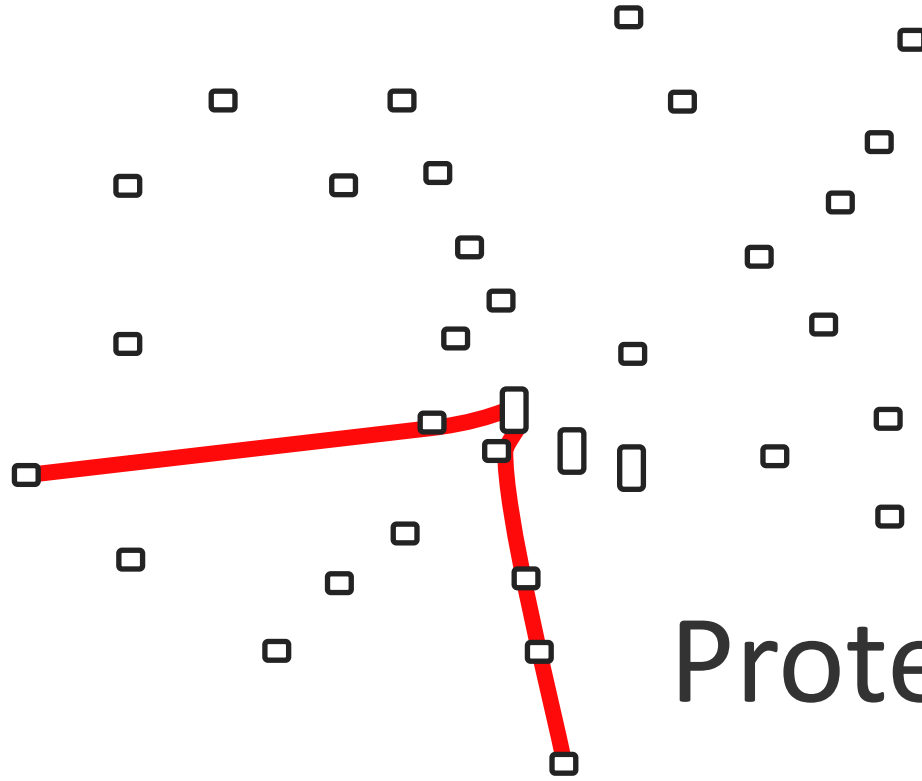
Marketing



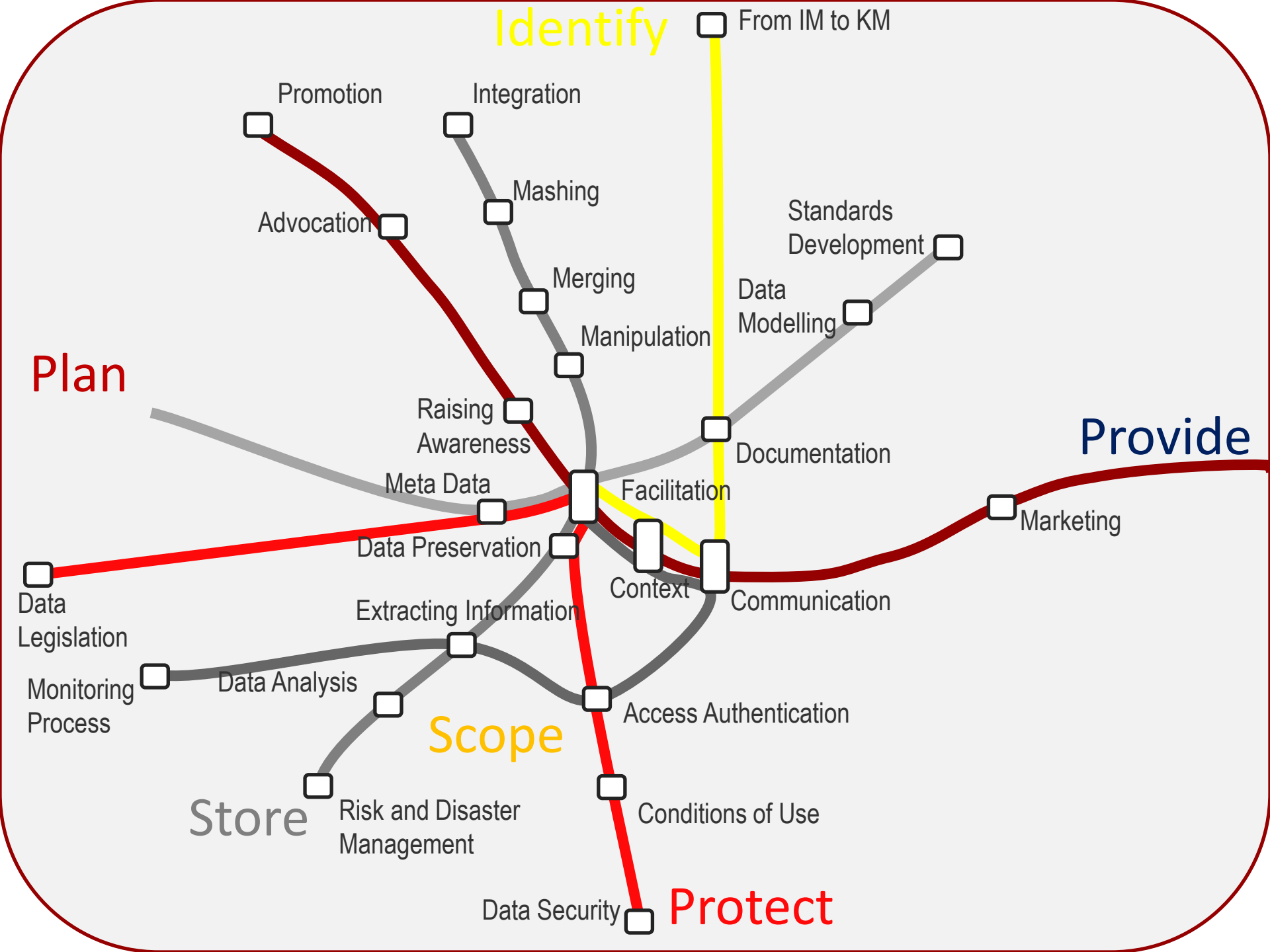


Storage Line





Protection Line



Identify

From IM to KM

Promotion Integration

Advocation

Mashing

Standards Development

Plan

Merging

Data Modelling

Manipulation

Provide

Raising Awareness

Documentation

Meta Data

Facilitation

Marketing

Data Preservation

Context

Data Legislation

Communication

Extracting Information

Access Authentication

Monitoring Process

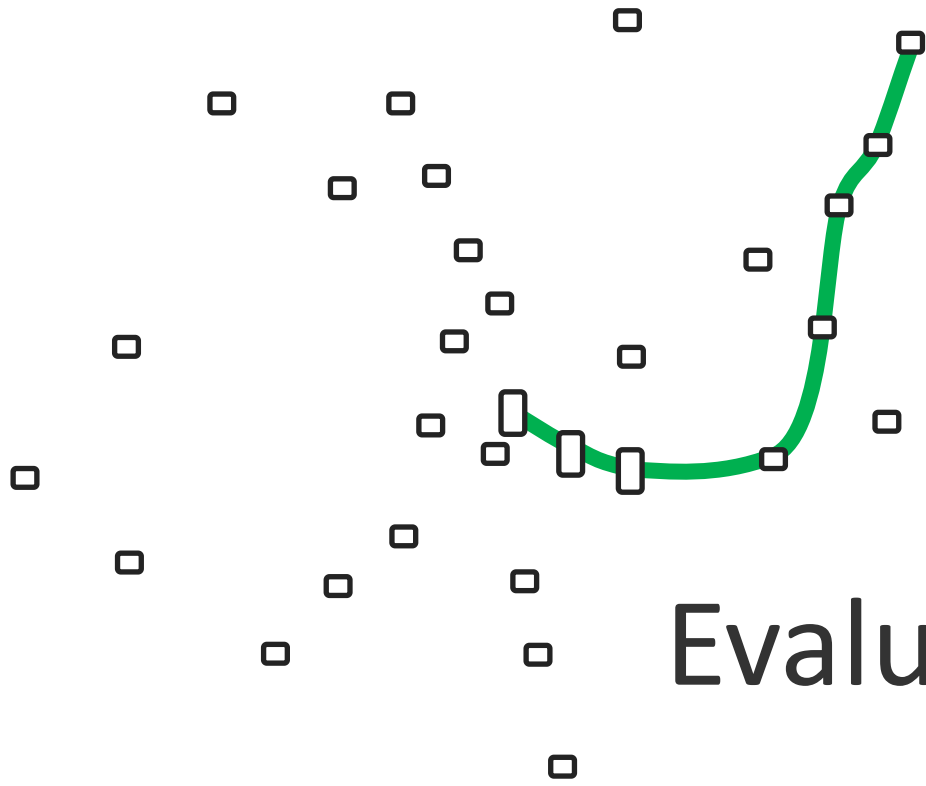
Store

Scope

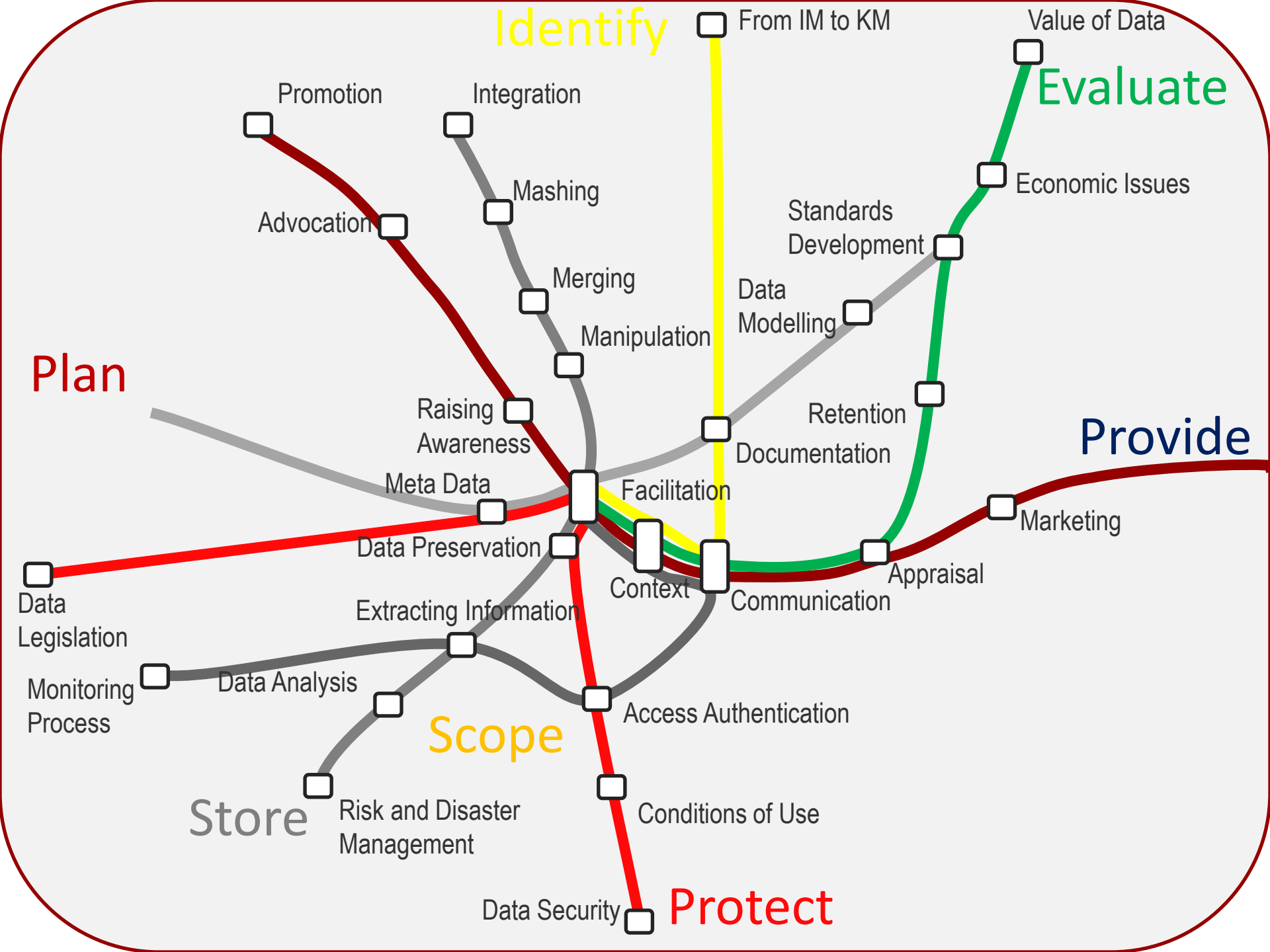
Risk and Disaster Management

Conditions of Use

Data Security Protect



Evaluation Line



Identify

Evaluate

Plan

Provide

Scope

Protect

Store

From IM to KM

Value of Data

Promotion

Integration



Advocation



Mashing



Economic Issues



Standards Development



Merging



Data Modelling



Manipulation



Retention



Raising Awareness



Documentation



Meta Data



Facilitation



Marketing



Data Preservation



Context



Appraisal



Data Legislation



Extracting Information



Communication



Monitoring Process

Data Analysis



Access Authentication



Risk and Disaster Management

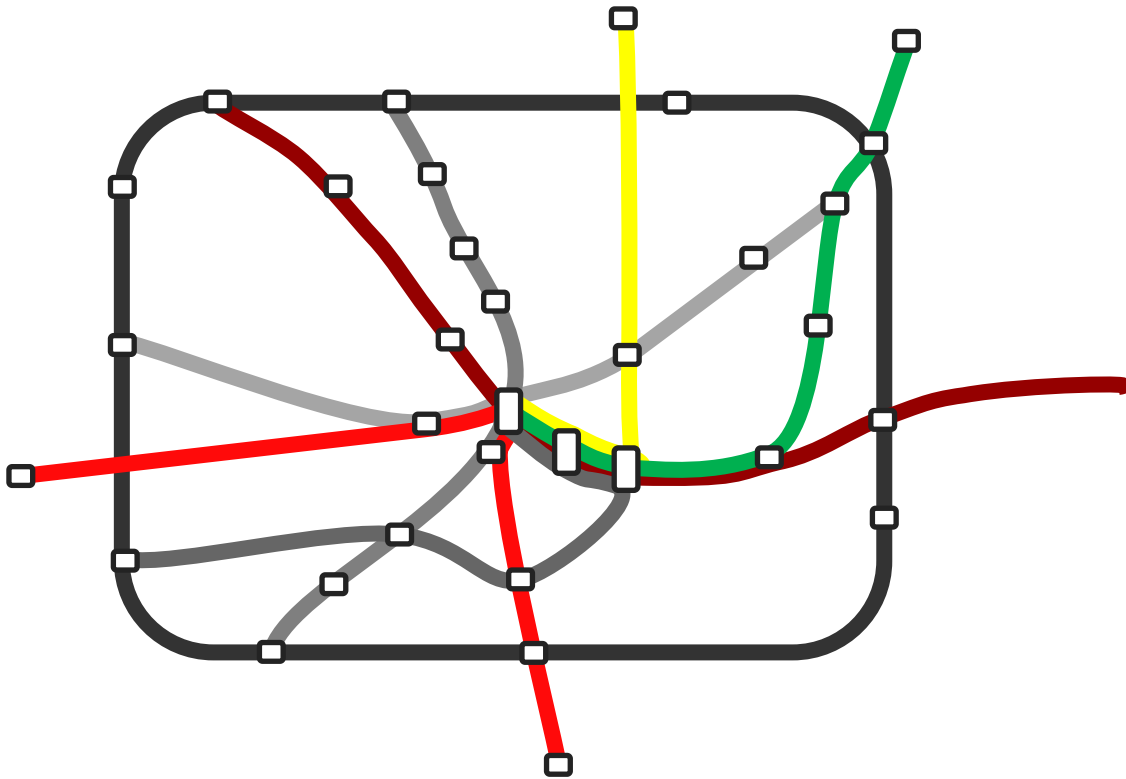


Conditions of Use

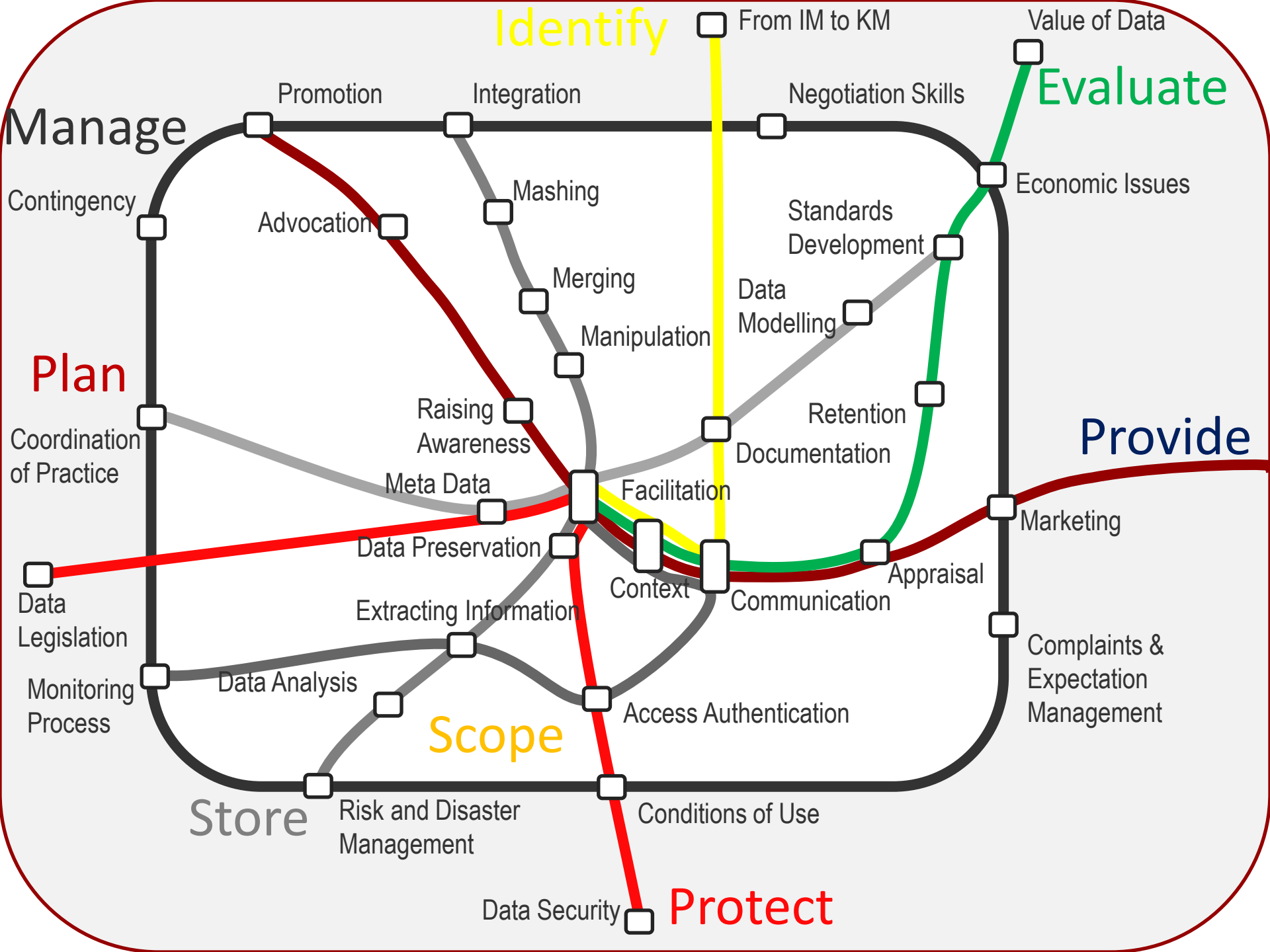


Data Security





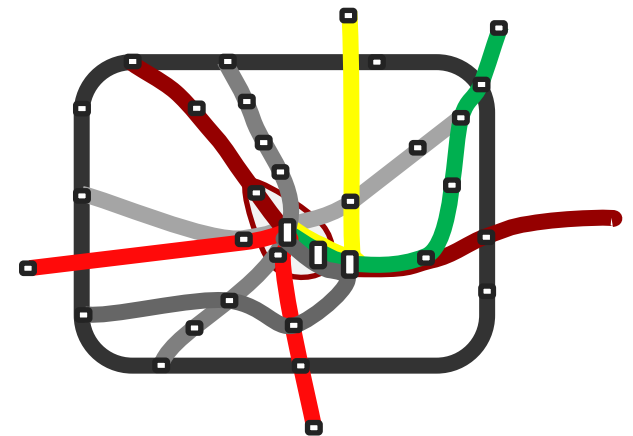
Management Line

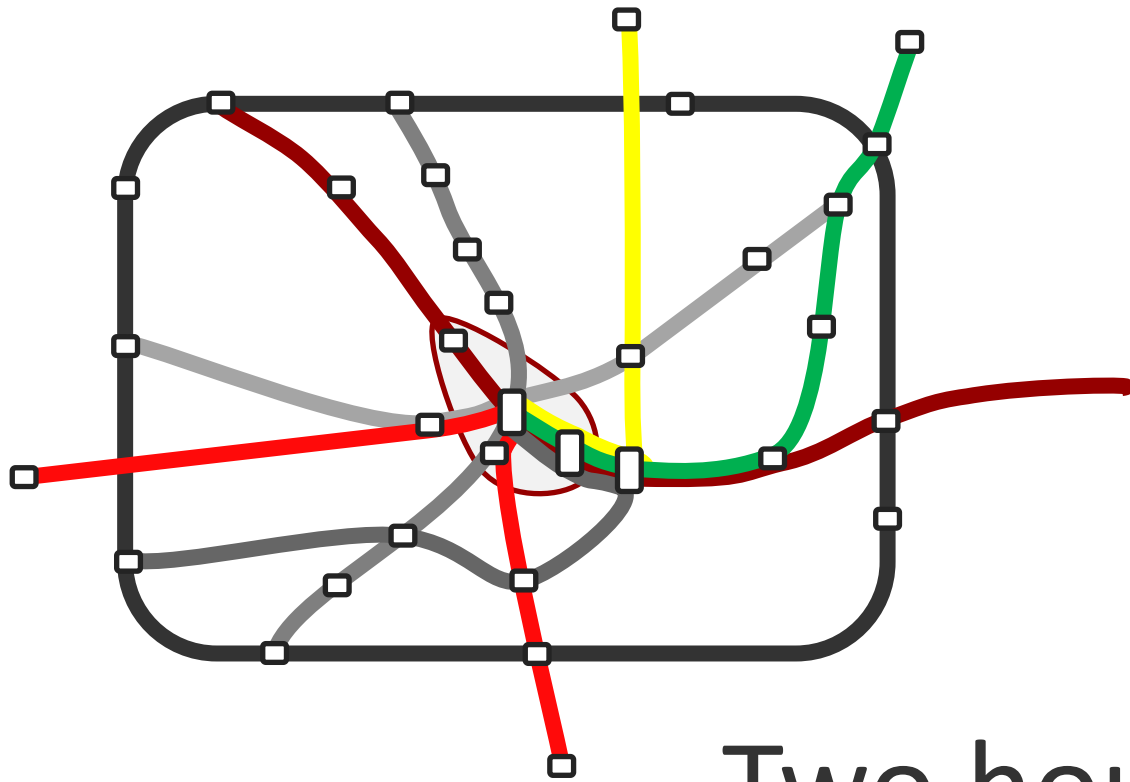


Take a ride on the Research Literacy Line!

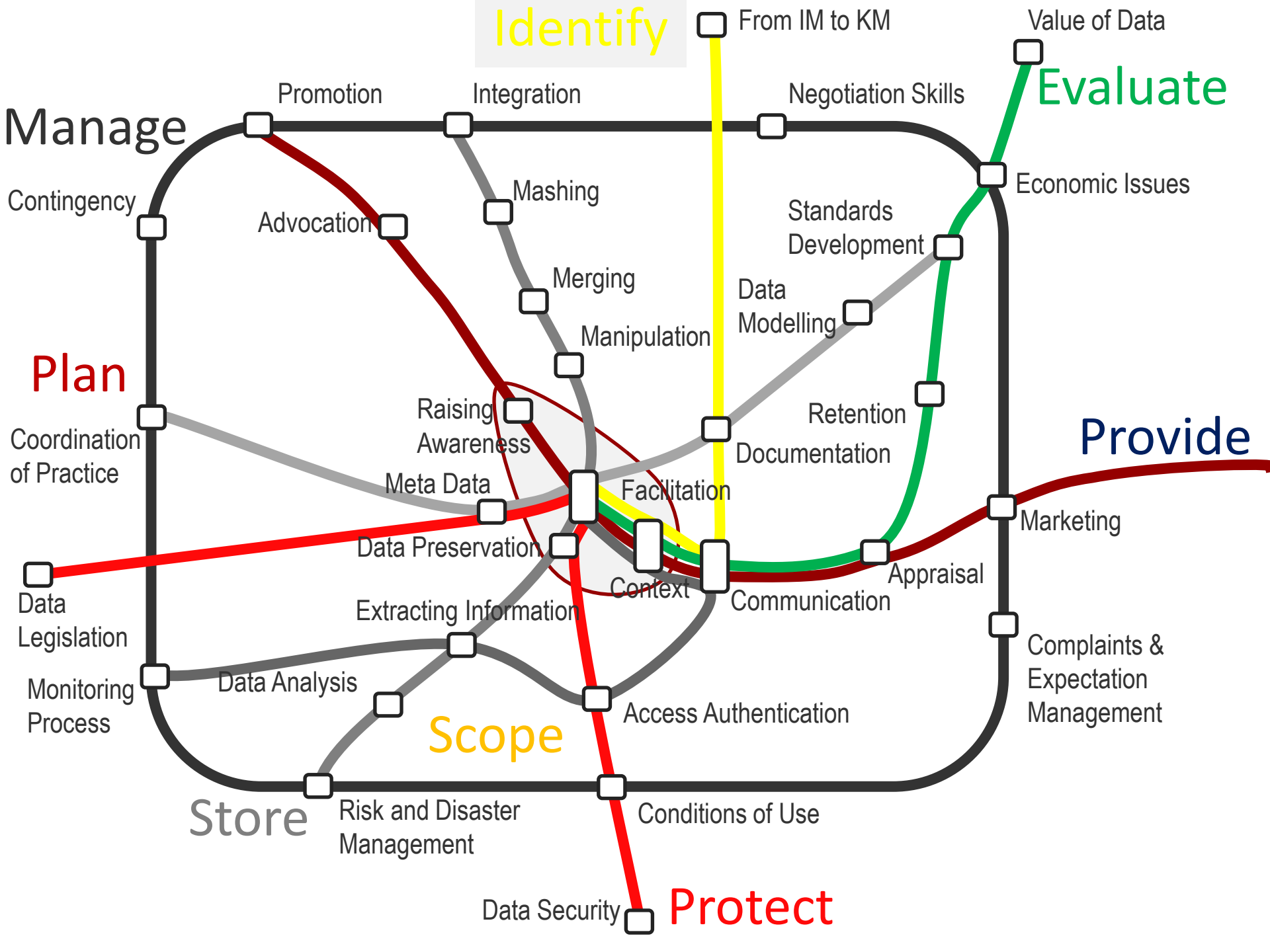
Let's say that:

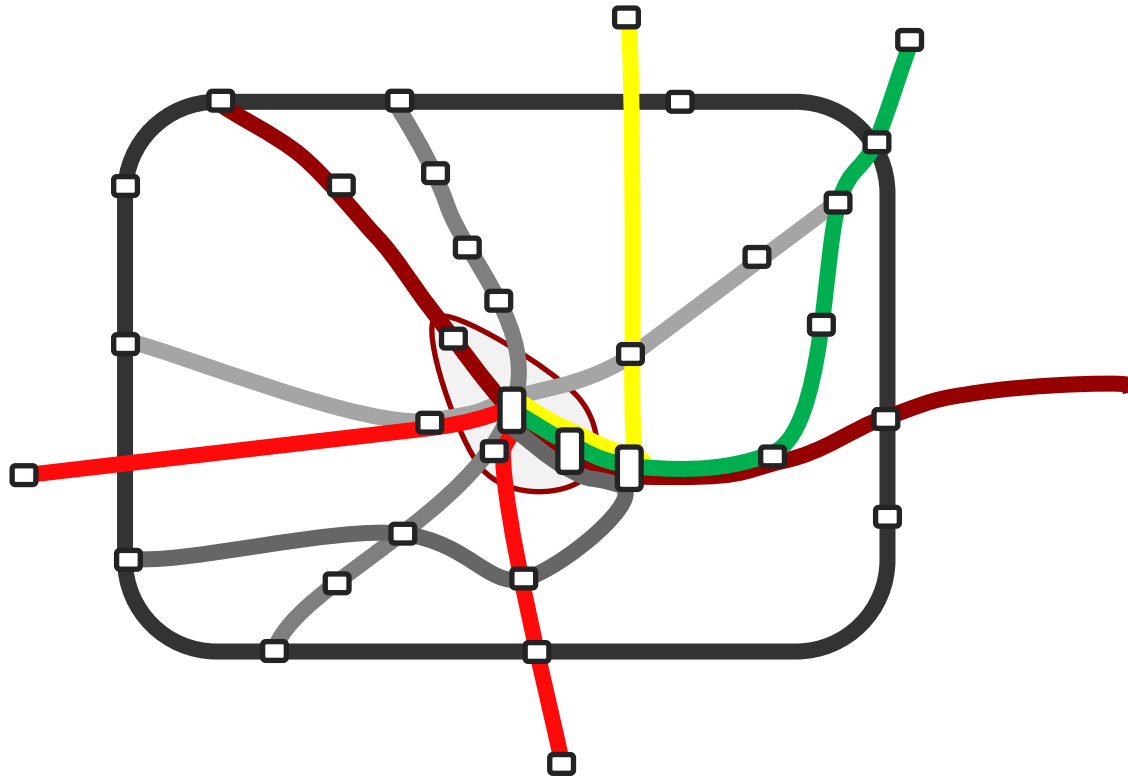
1. Literacy Skills are like Metro Lines.
2. Curation Skills are like Stops.
3. Teaching units are like zones.
4. Programs are like validity.



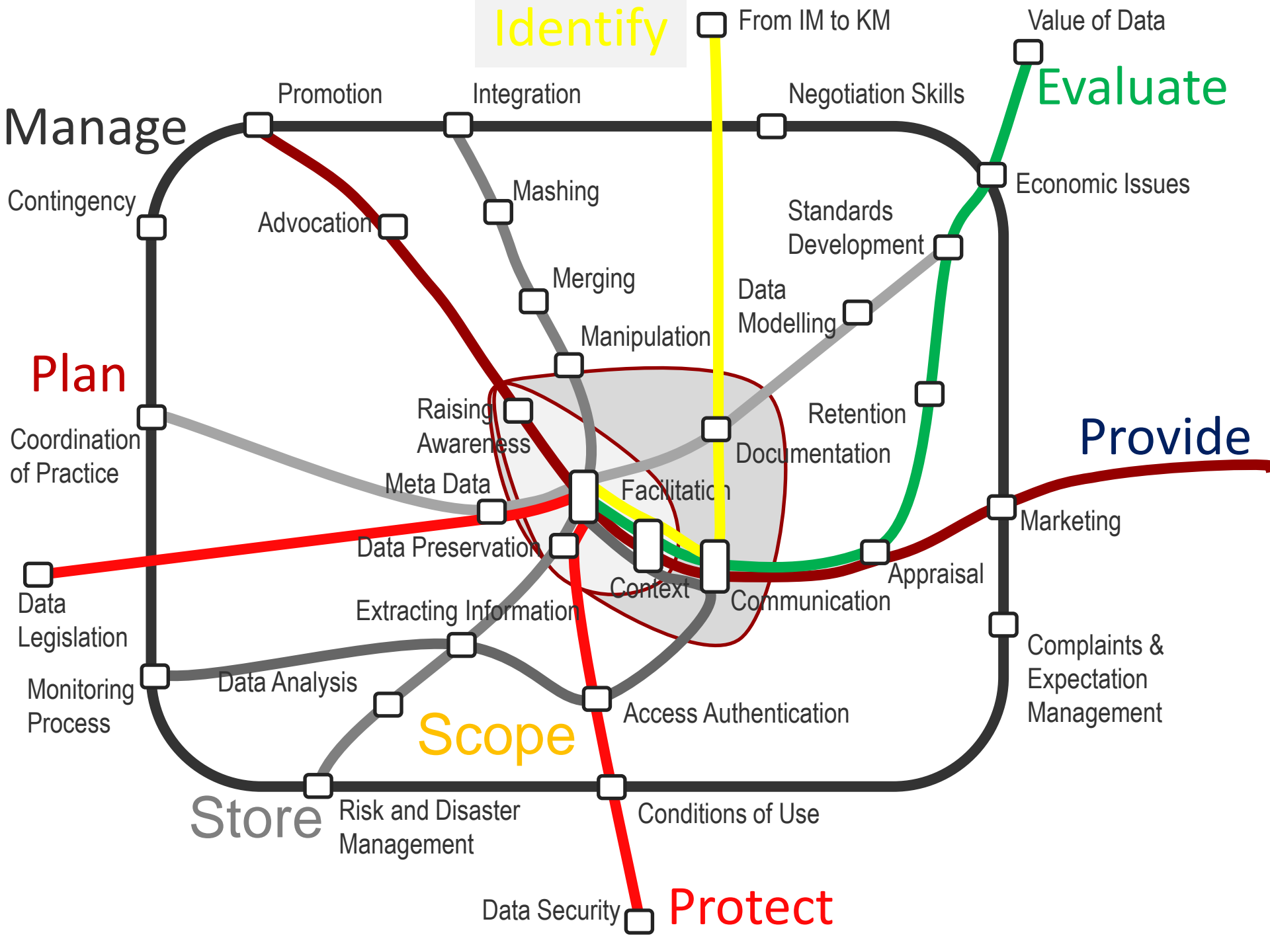


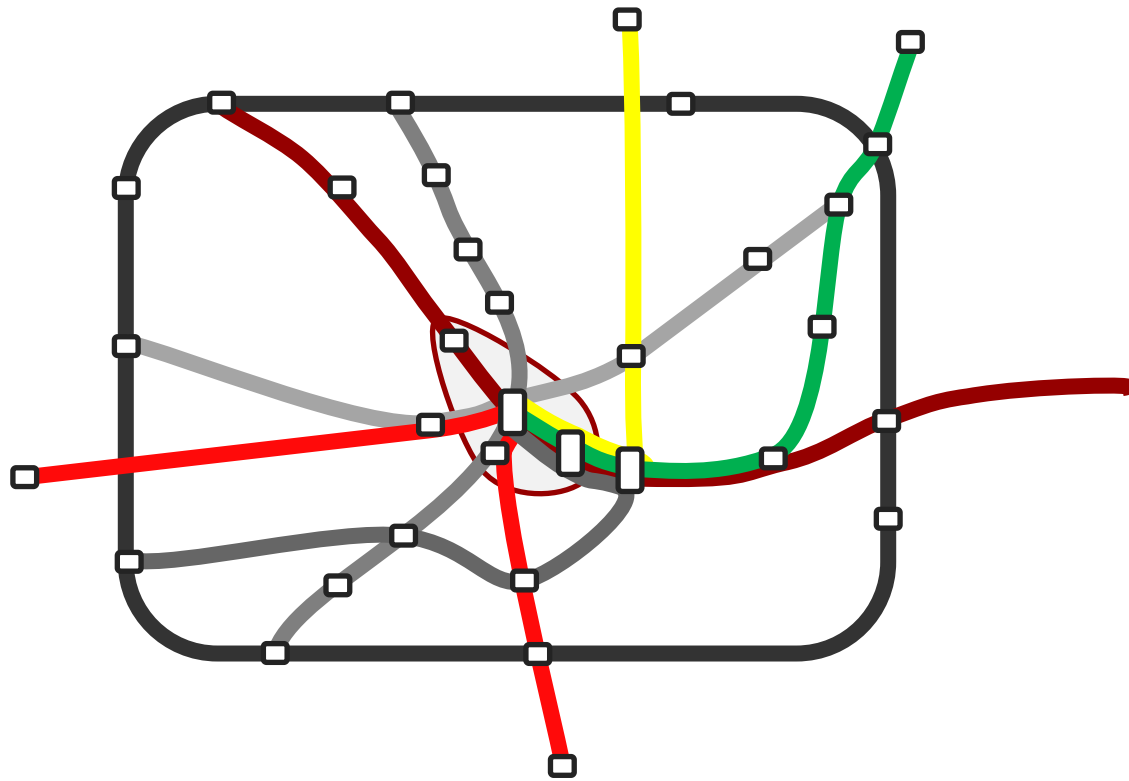
Two hours validity



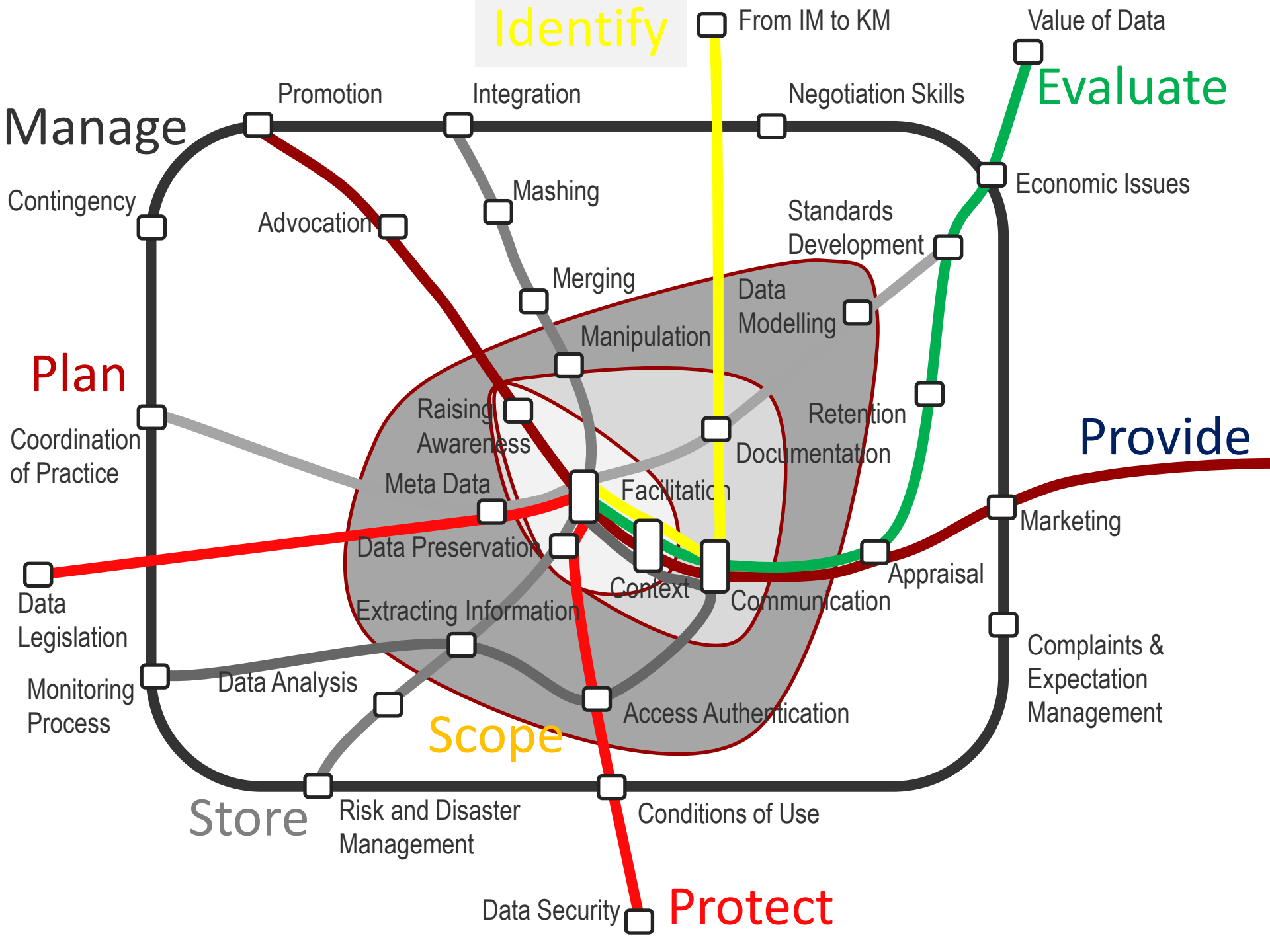


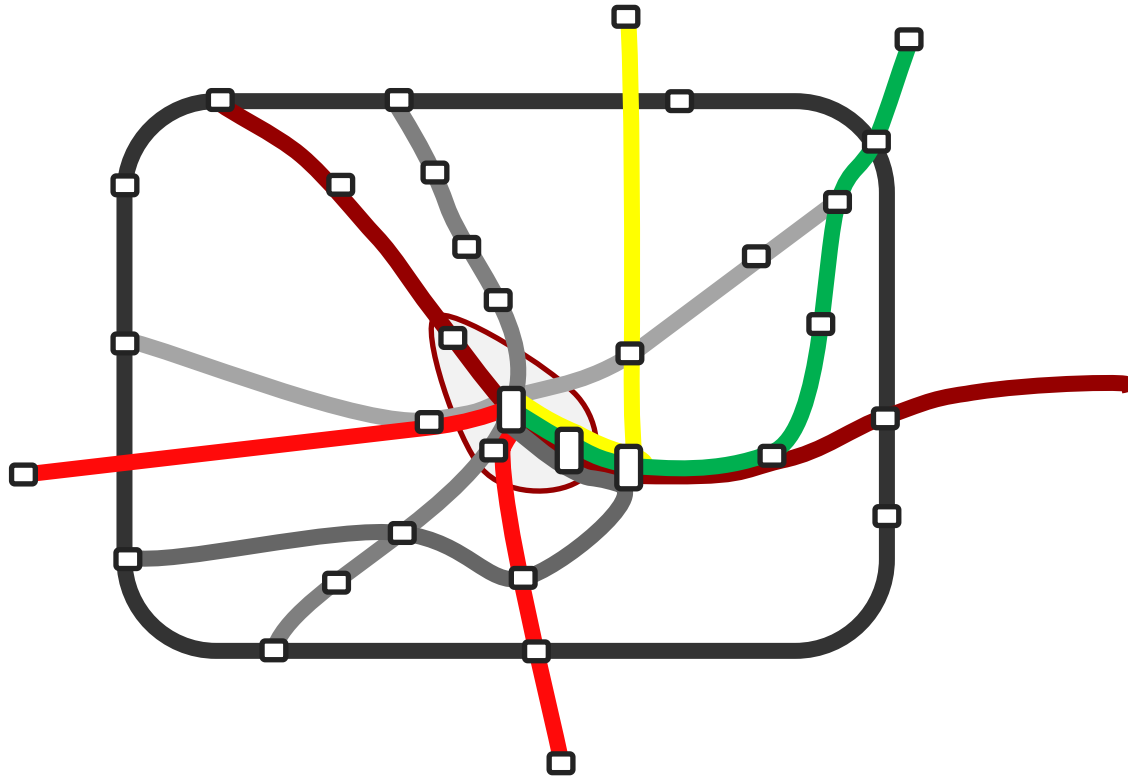
Full course / workshop Ticket



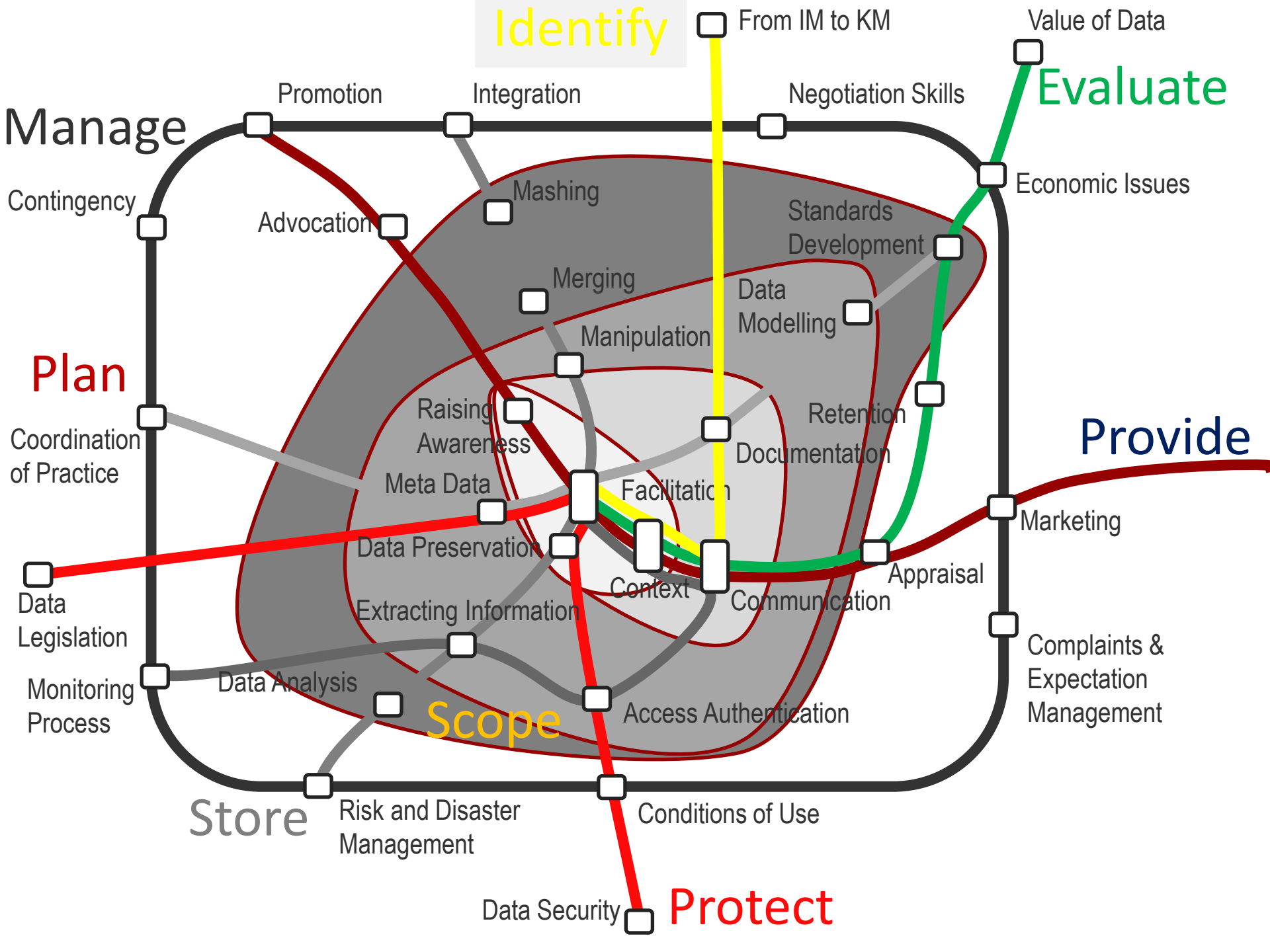


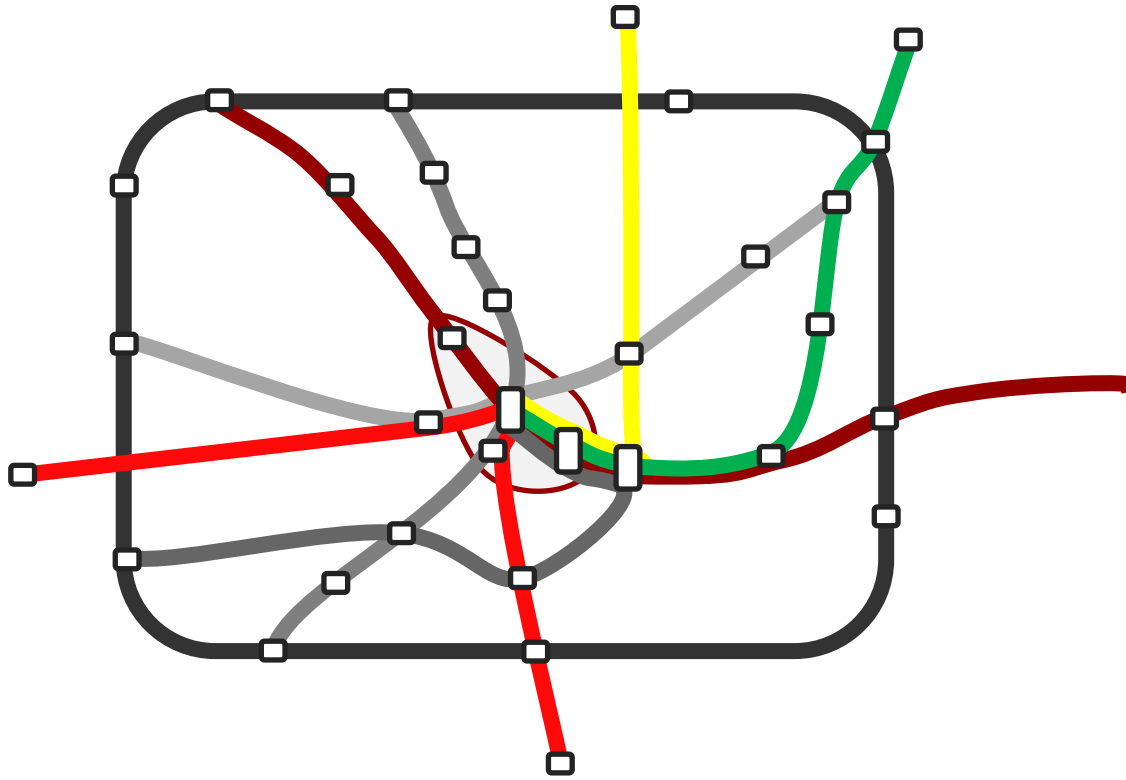
Full module Ticket



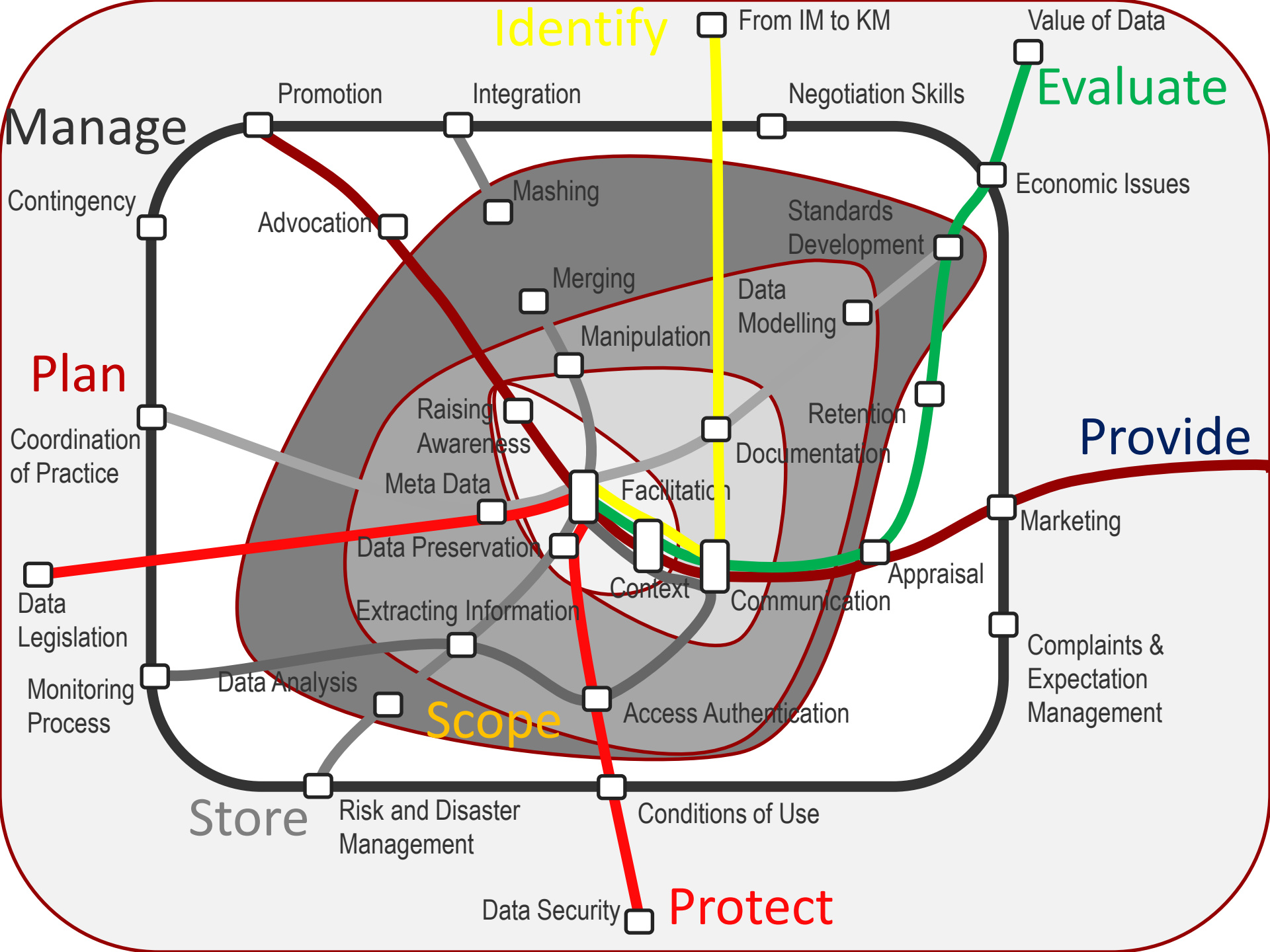


Specialization Ticket





Full ticket
(two years validity)



Thank you for your attention!

Send questions to: rene.schneider@hesge.ch

