



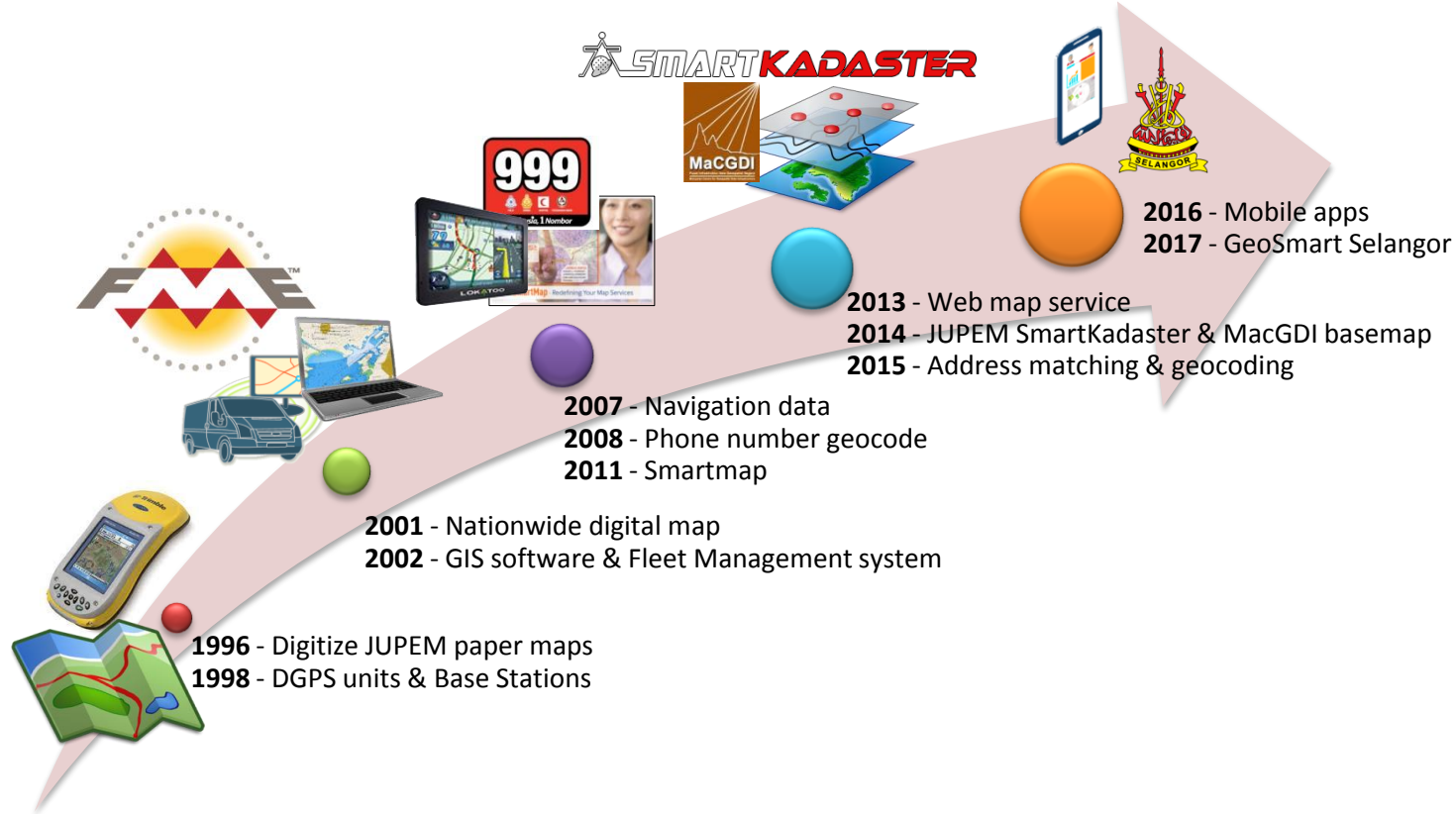
Transformation of Data to MS1759

FME World Tour 2017

Ahmad Hizami Rosehaizad

- Maintain Malaysia basemap for Telekom Malaysia
 - Internal use (planning, service provision)
 - Products & services
- 20 years experience in GIS

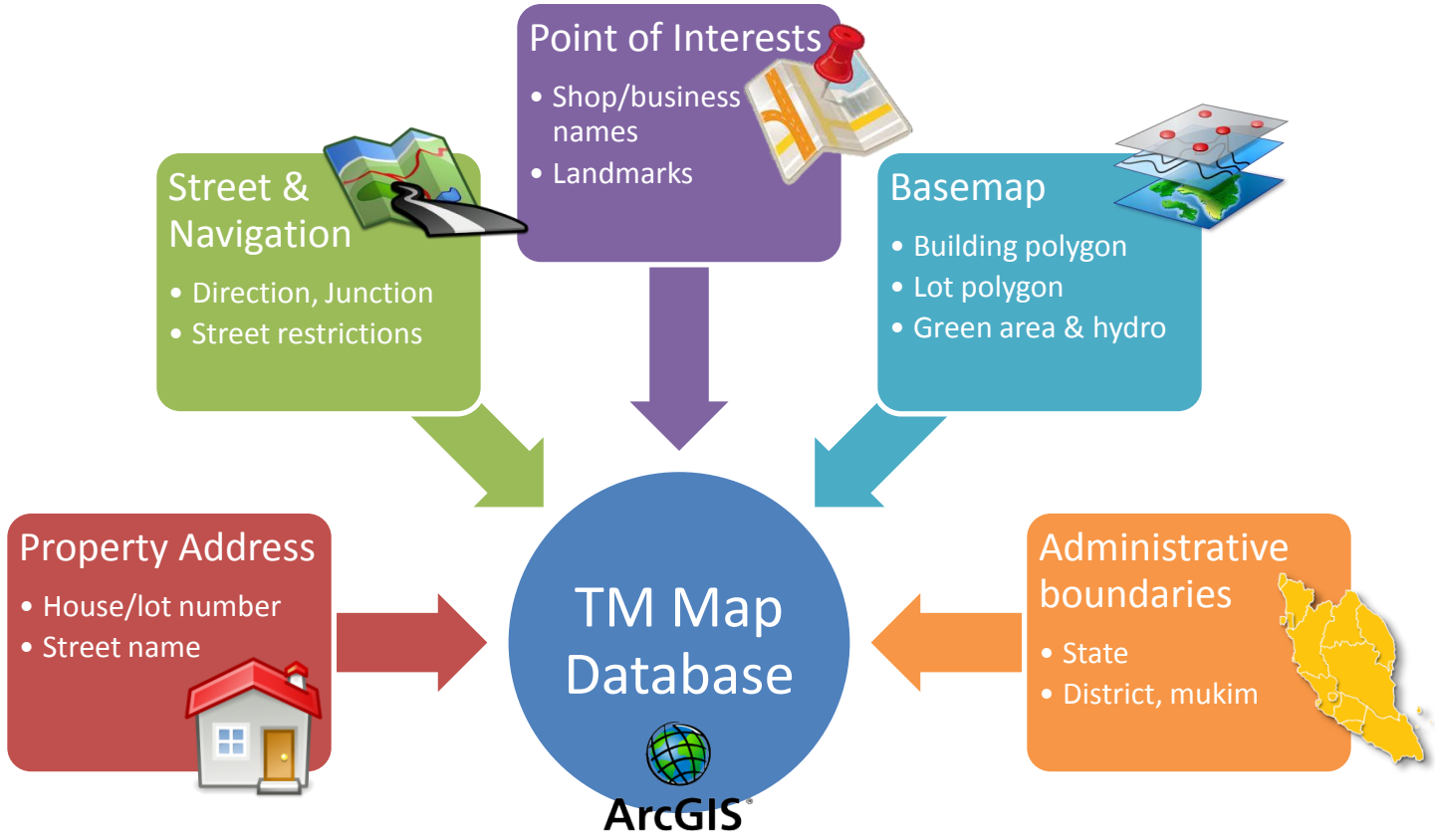
History of TM Geomatics



Map Updating Cycle

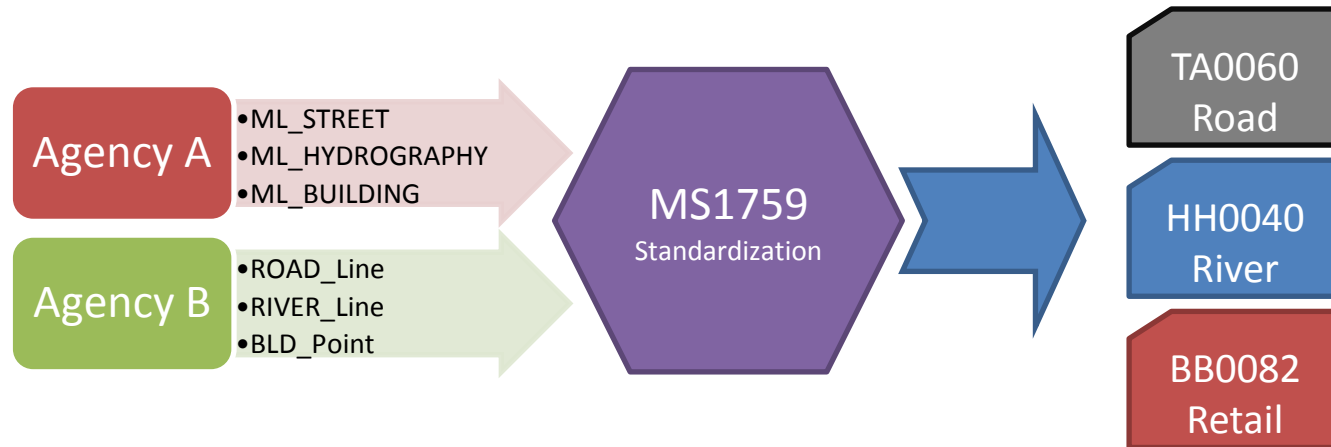


Map Database



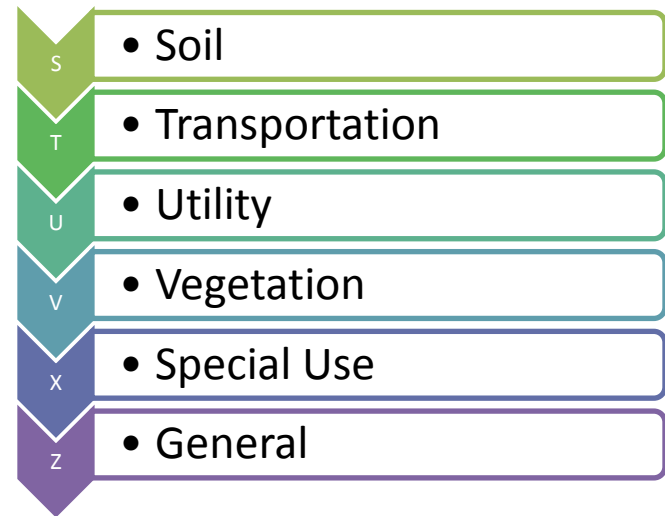
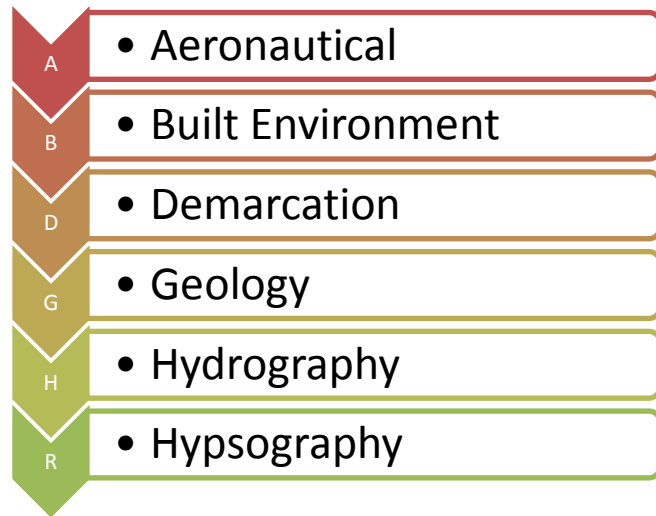
MS 1759

- Geographic Information/Geomatics - Features and Attribute Codes
- Developed by the Technical Committee on Geographic Information/Geomatics under the authority of the Industry Standards Committee on Information Technology, Communications and Multimedia
- Intended for use by all businesses that produce, distribute or utilize geospatial data, either alone or in conjunction with non-geospatial data



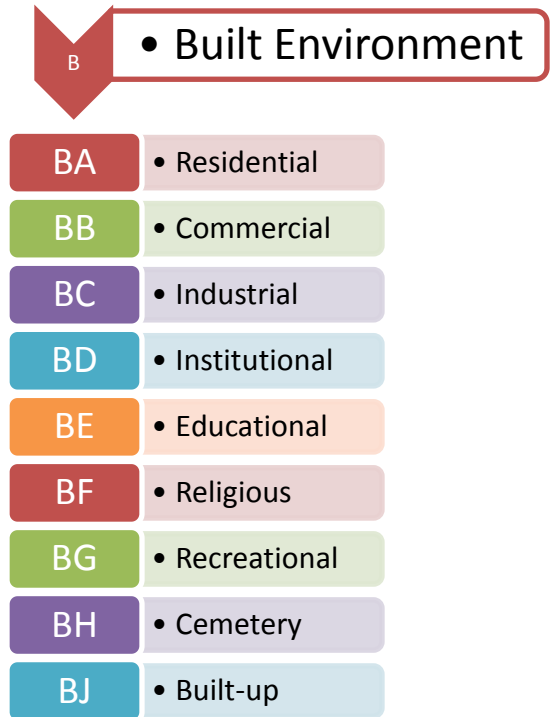
MS 1759 Categories

- MS1759:2015 describe the encoding of the real world in terms of features and attributes
- 12 main categories



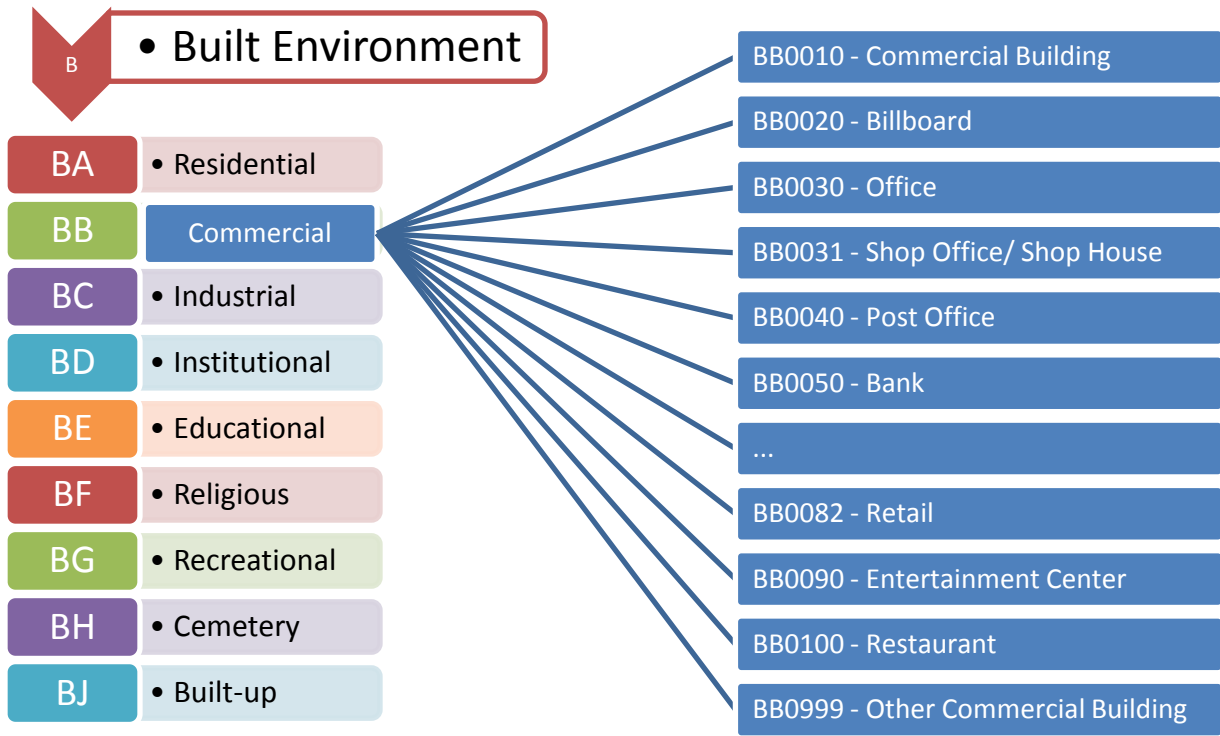
MS 1759 Subcategories

- Each major category is further divided into sub categories



MS 1759 Subcategories

- And each subcategory can further identify a specific feature



MS1759 Attributes

Feature Code	BB0030																															
Feature Name	Office																															
Description	A building or place which business, administrative, clerical or professional activities are conducted.																															
Category	BUILD ENVIRONMENT (B) ---> Commercial (BB)																															
Feature Class	Polygon, Point																															
Possible Attributes	Product Category (PRO)																															
	Width (WID)																															
	Length (LEN)																															
	Height (HEI)																															
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Example Case

- TM required to provide Point of Interest & Street data as part of project deliverables

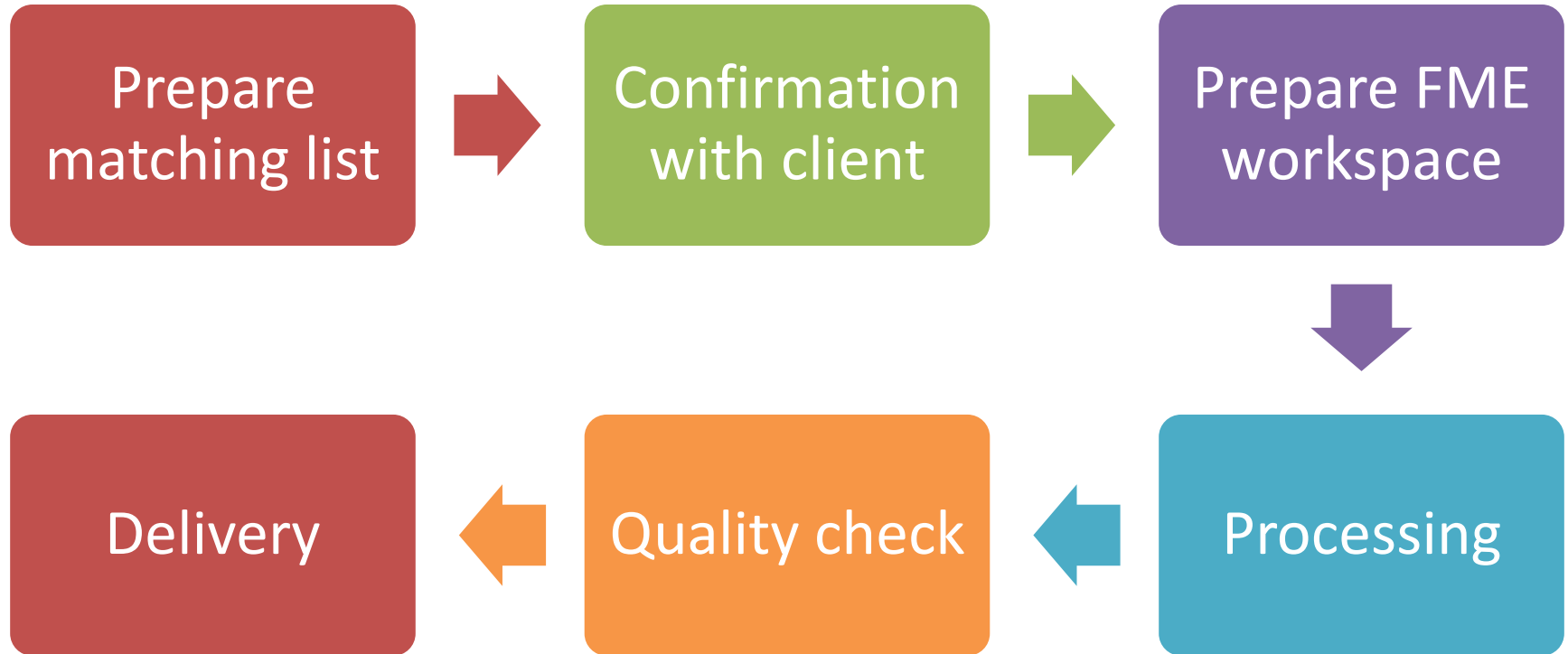
ML_STREET

- STREET_TYPE
- STREET_NAME
- TOLL_TYPE
- DIRECTION
- CONS_STATUS
- STREET_CATEGORY
- ROAD_CLASS

ML_POI

- PLACE_NAME
- BUILDING_NAME
- HOUSE_NO/LOT_NO
- STREET_NAME
- POSTCODE
- STATE
- PROP_TYPE
- NO_OF_FLOOR
- POI_CODE

Process



Example Matching List (Attributes)

ML_STREET

TA0060 Road

TM Attribute	MS Description	MS Attribute	MS Data Type
STREET_TYPE + STREET_NAME	Any name to identify a feature	Name (NAM)	TEXT (120)
TOLL_TYPE	Identifies whether the use of a highway/road is free or charged	Toll (TOL)	TEXT (20)
DIRECTION	Identifies whether the traffic flow is in one or two direction	Traffic Flow (RDF)	LONG INTEGER
CONS_STATUS	Operational status of a feature	Status (STA)	DOUBLE
STREET_CATEGORY	Category of a road	Road Category (RDC)	TEXT (30)
ROAD_CLASS	Identifies the type of road class	Road Class (RCS)	TEXT (20)

Example Matching List (Feature Types)

TM POI Codes

POI_CODE	Desc1	Desc2	Desc3
FSBKBC	Financial Services	Bank	CIMB Bank
FSBKBI	Financial Services	Bank	Bank Islam
FSBKBP	Financial Services	Bank	AGRO Bank
FSBKBR	Financial Services	Bank	Bank Rakyat
FSBKBS	Financial Services	Bank	Bank Simpanan Nasional
FSBKMB	Financial Services	Bank	Maybank
FSBKOC	Financial Services	Bank	OCBC Bank
FSBKOT	Financial Services	Bank	Others

POI_CODE	Desc1	Desc2	Desc3
PFPWBD	Public Facility	Place of Worship	Buddha
PFPWCH	Public Facility	Place of Worship	Church
PFPWHT	Public Facility	Place of Worship	Hindu Temple
PFPWMQ	Public Facility	Place of Worship	Mosque
PFPWOT	Public Facility	Place of Worship	Others
PFPWSR	Public Facility	Place of Worship	Surau
PFPWST	Public Facility	Place of Worship	Sikh Temple
PFPWTP	Public Facility	Place of Worship	Chinese Temple

POI_CODE	Desc1	Desc2	Desc3
CSHMAB	Consumer Shopping	Hypermarket	AEON Big
CSHMGT	Consumer Shopping	Hypermarket	Giant
CSHMMY	Consumer Shopping	Hypermarket	Mydin
CSHMOT	Consumer Shopping	Hypermarket	Others
CSHMTS	Consumer Shopping	Hypermarket	Tesco
CSHMTX	Consumer Shopping	Hypermarket	Tesco Extra

MS Features

BB0050 - Bank

- A financial institution and a financial intermediary that accepts deposits and channels those deposits into lending activities, either directly by loaning or indirectly through capital markets.

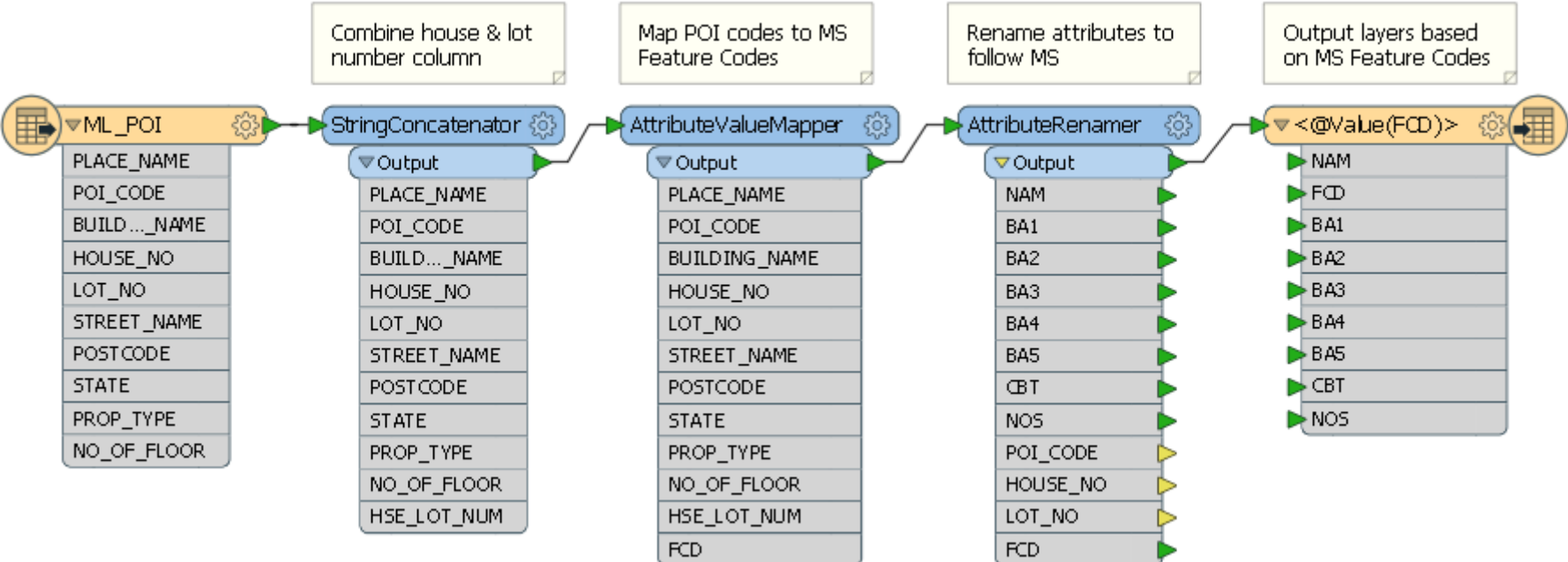
BF0010 - Building of Worship

- A building or premises used as a place of worship, religious talks and other related activities.

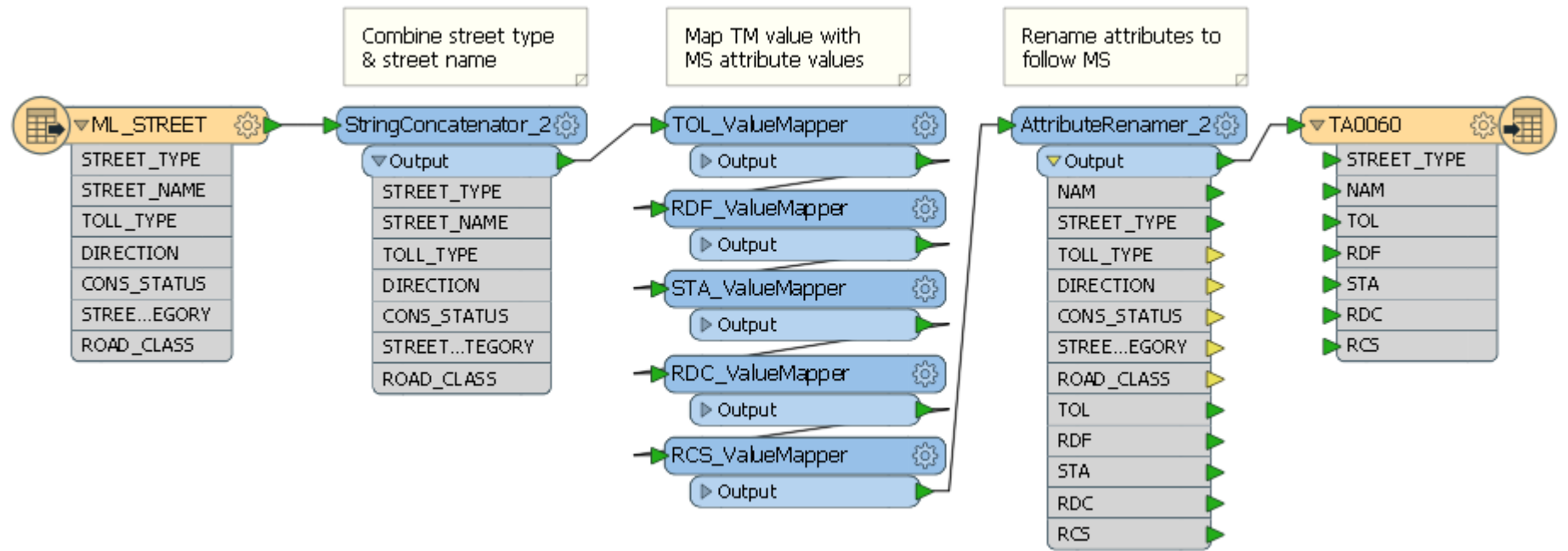
BB0081 - Hypermarket/Supermarket

- A retail store that combines a department store and a grocery. Often a very large establishment or building offer a large variety of products such as appliances, clothing and groceries.

Example FME Workspace



Example FME Workspace





Transformation of Data to MS1759

Q&A