Portfolio Management Tool (PMT)
Database Documentation

Data Model
Application Model
Spatial Model
Data Dictionary
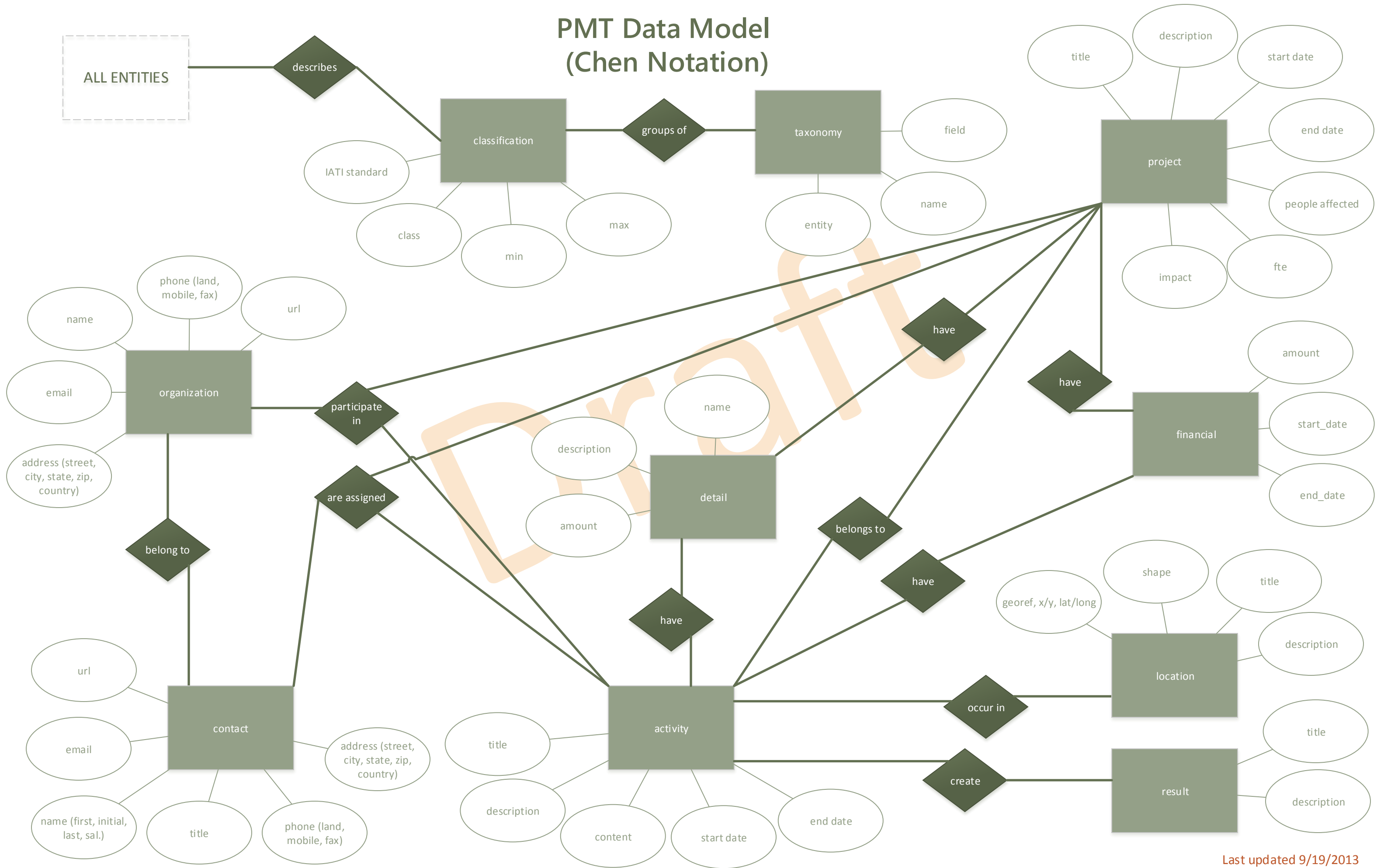
Draft Version

Spatial Development International, LLC
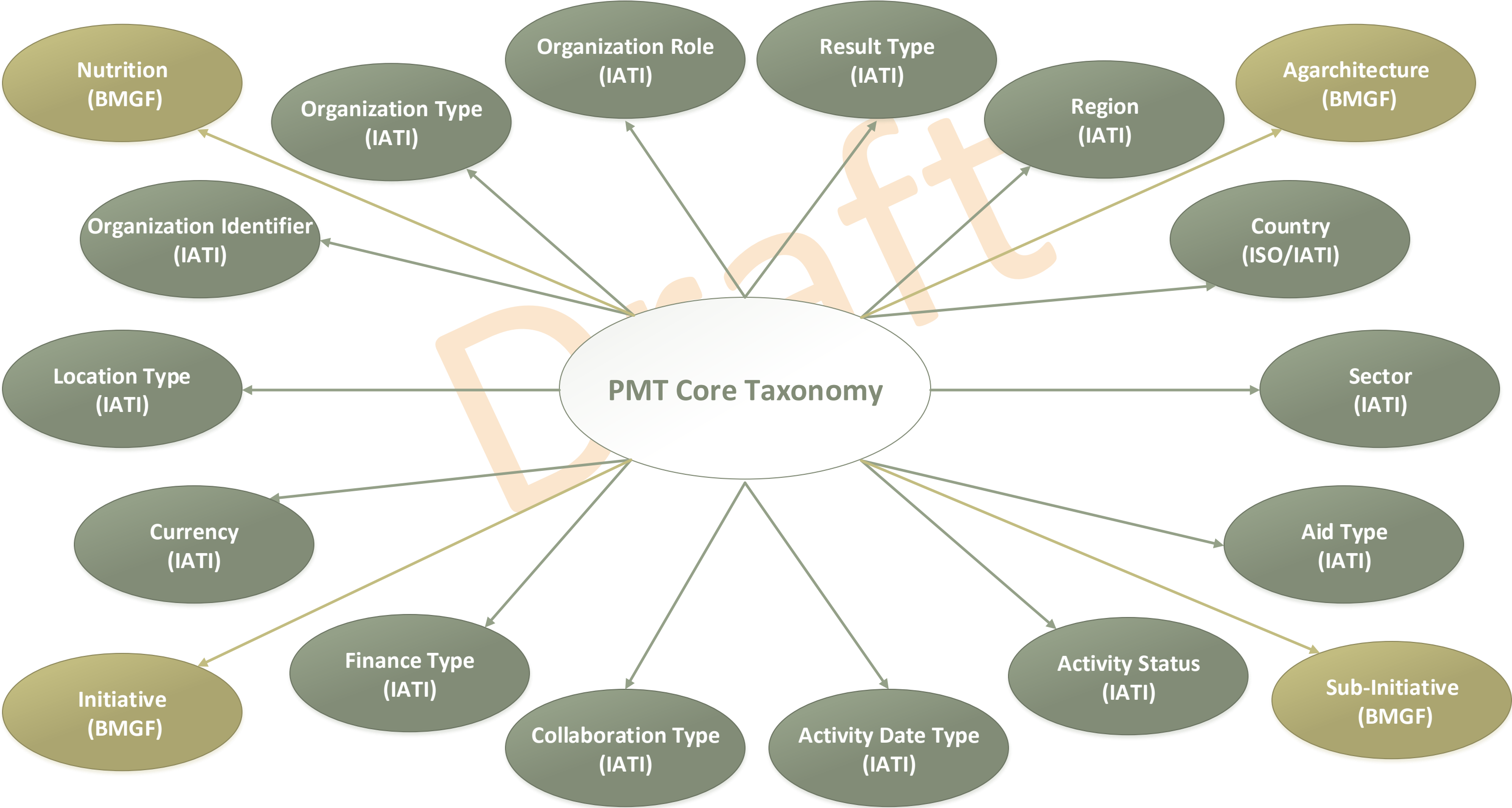
2208 NW Market Street, Suite 202
Seattle, WA 98107
http://www.spatialdev.com

PMT Data Model
(Chen Notation)

ALL ENTITIES —— describes —— classification —— groups of —— taxonomy

classification attributes: IATI standard, class, min, max

taxonomy attributes: field, name, entity

project attributes: title, description, start date, end date, people affected, fte, impact

organization attributes: name, phone (land, mobile, fax), url, email, address (street, city, state, zip, country)

detail attributes: name, description, amount

financial attributes: amount, start_date, end_date

contact attributes: url, email, address (street, city, state, zip, country), name (first, initial, last, sal.), title, phone (land, mobile, fax)

activity attributes: title, description, content, start date, end date

location attributes: shape, title, georef, x/y, lat/long, description

result attributes: title, description

Relationships: describes, groups of, participate in, are assigned, belong to, have, belongs to, occur in, create
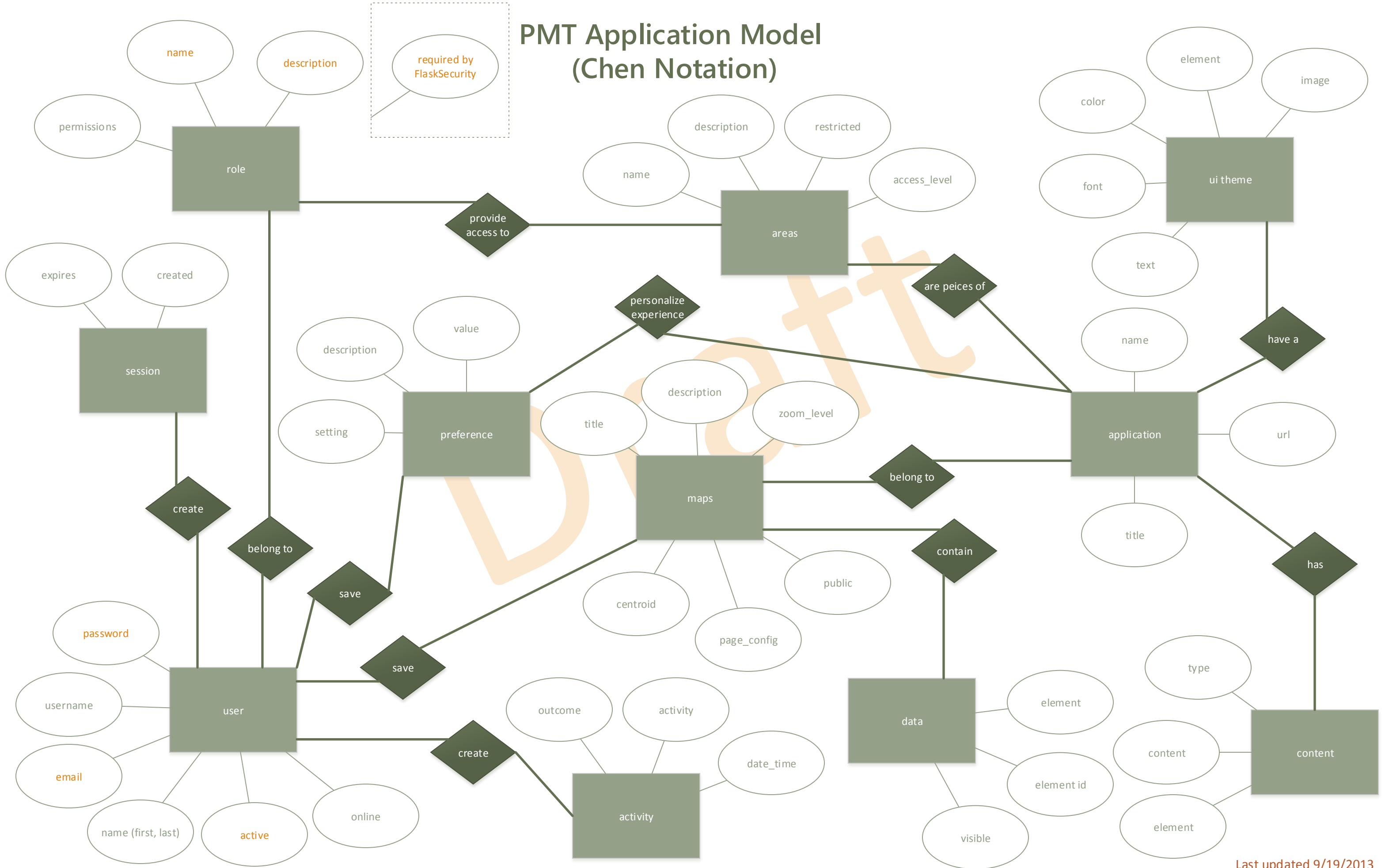
PMT Data Model
(Taxonomy)

Taxonomy (n) the study of the general principles of scientific classification. PMT utilizes the concept of taxonomy in order to provide a scalable and flexible methodology for describing objects within the data model. PMT provides a core set of taxonomies as show below, which support the IATI standards for classifying data. Implementers of PMT can add any number of additional taxonomies in order to support their specific needs of classification, as shown below in the case of BMGF
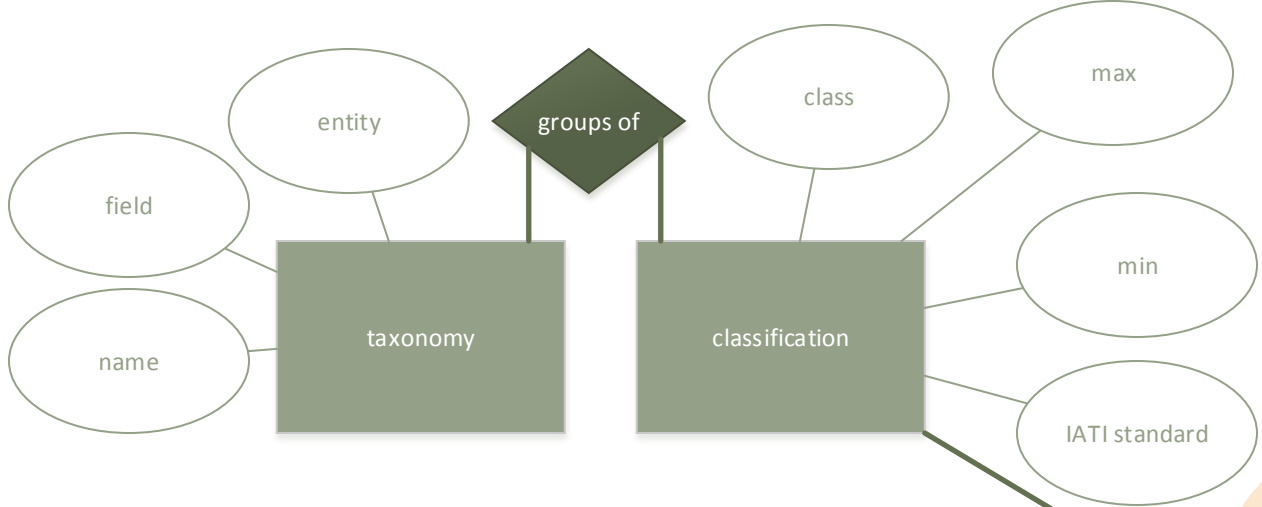
Nutrition
(BMGF)

Organization Type
(IATI)

Organization Role
(IATI)

Result Type
(IATI)

Region
(IATI)

Agarchitecture
(BMGF)

Organization Identifier
(IATI)

Country
(ISO/IATI)

Location Type
(IATI)

PMT Core Taxonomy

Sector
(IATI)

Currency
(IATI)

Aid Type
(IATI)

Initiative
(BMGF)

Finance Type
(IATI)

Collaboration Type
(IATI)

Activity Date Type
(IATI)

Activity Status
(IATI)

Sub-Initiative
(BMGF)

PMT Application Model
(Chen Notation)

name

description

required by FlaskSecurity

permissions

role

element

image

color

ui theme

font

text

description

restricted

name

areas

access_level

provide access to

are peices of

have a

expires

created

session

personalize experience

description

value

title

description

zoom_level

name

url

preference

application

setting

belong to

maps

title

create

belong to

save

contain

has

password

save

centroid

public

username

user

page_config

data

element

type

content

email

create

outcome

activity

element id

content

name (first, last)

active

online

activity

date_time

visible

element

Last updated 9/19/2013

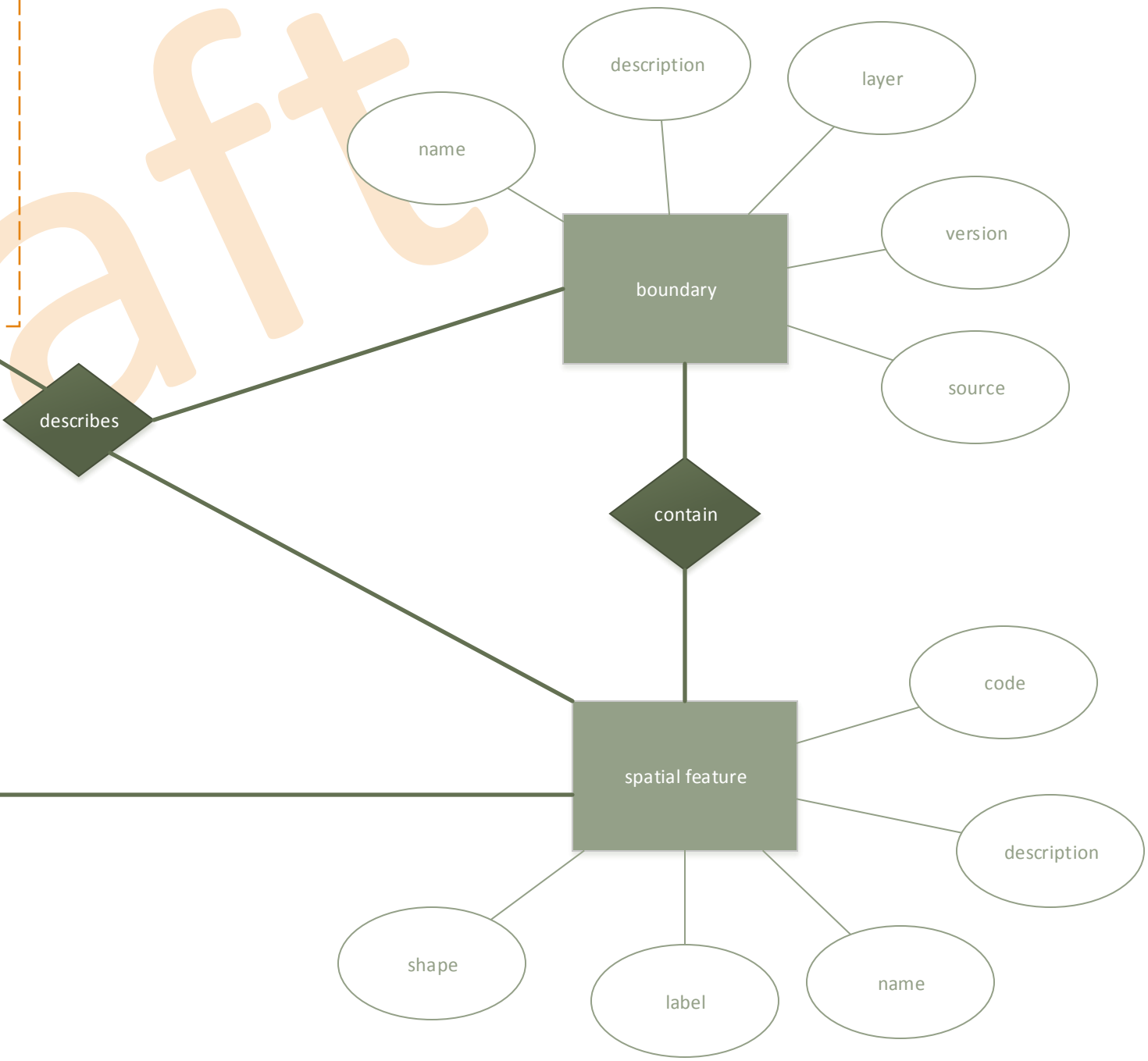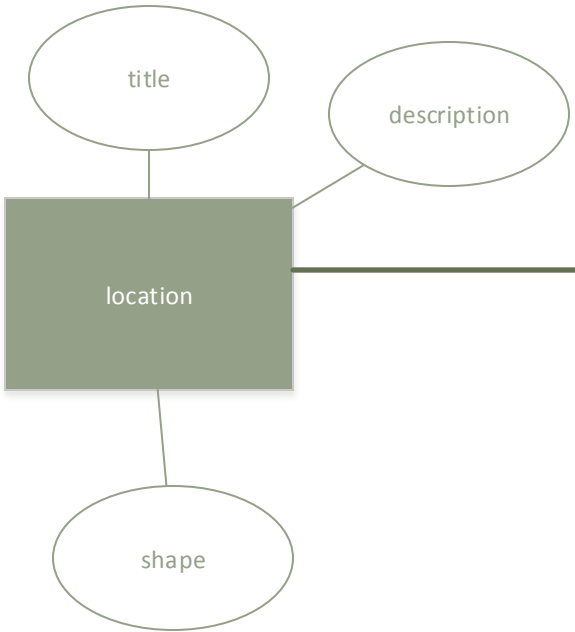# PMT Spatial Model
(Chen Notation)

Association of the location entity to a spatial layer is important in order for the PMT system to offer aggregation based on spatial features. Below is a list of planned spatial layers to be supported, however the data model allows for additions and updates of existing layers:
- GAUL/GADM
- AEZ
- Farming Systems

See Data Model for more information on taxonomy.

field
entity
name

taxonomy

groups of

class
max
min
IATI standard

classification

description
layer
name
version
source

boundary

describes

contain

See Data Model for more information on the location entity.

title
description

location

shape

associated to

spatial feature

code
description
shape
label
name

Draft

Last updated 9/19/2013

PMT Data Dictionary
(Entities)

activity — A specific function, mission, action or collection of actions performed by an organization(s).

classification — A set of classes having common attributes used to describe relationships between entities.

contact — An individual belonging to an organization for the purpose of communication on behalf of the organization.

detail — Additional information or details belonging to a project or activity.

financial — Pertaining to monetary receipts and expenditures for a particular purpose.

location — A particular place, site or position of an activity.

organization — An organized body of people with a particular purpose. A company, firm, corporation, institution, consortium, association, agency.

participation — A function or part performed by an organization in a particular project or activity.

project — An individual or collaborative endeavor that is planned and designed to achieve a goal.

result — A consequence, effect or outcome of an activity.

taxonomy — The grouping of classifications for the purpose of classifying entities.

Draft