

CUSTOMARY LAND TENURE IN THE LADM

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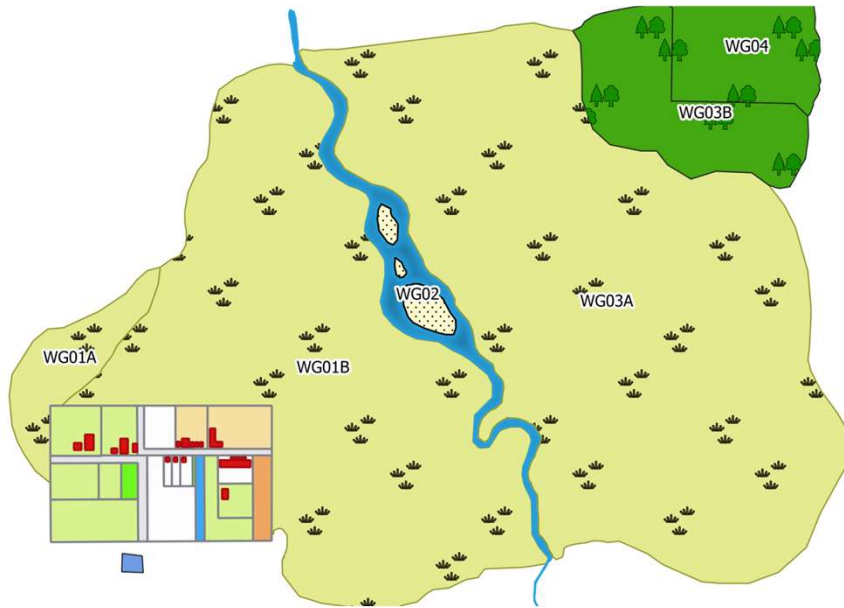
Faculty of Geo-Information Science and Earth Observation (ITC), University of Twente, THE NETHERLANDS

**12TH INTERNATIONAL FIG WORKSHOP ON LADM & 3D LA
24-26 SEPTEMBER 2024, KUCHING, MALAYSIA**



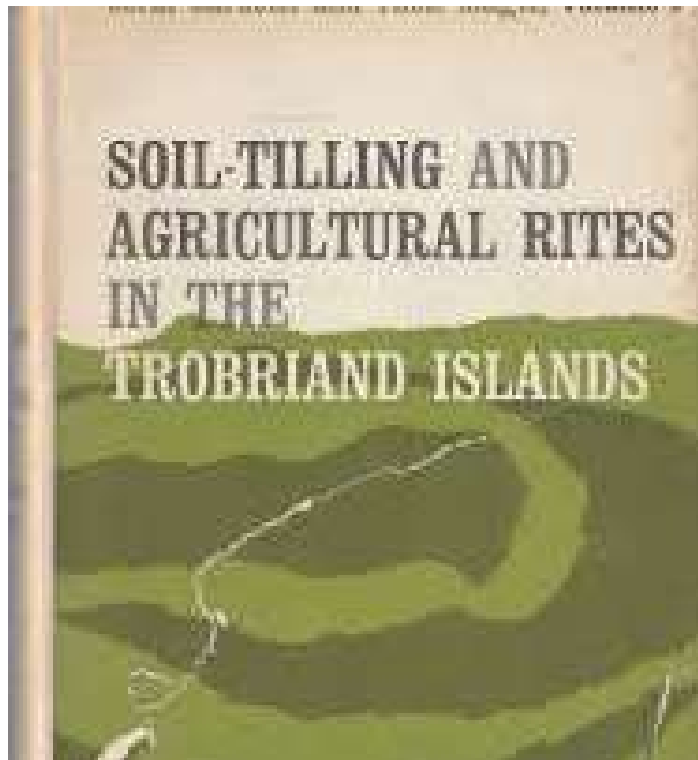
CHALLENGES OF CUSTOMARY TENURE FOR LA

ONTOLOGY (FORM OR STRUCTURE) VS FUNCTION (GOALS OR OBJECTIVES)



CASE STUDY

MALINOWSKI'S ACCOUNT OF TROBRIAND LAND TENURE







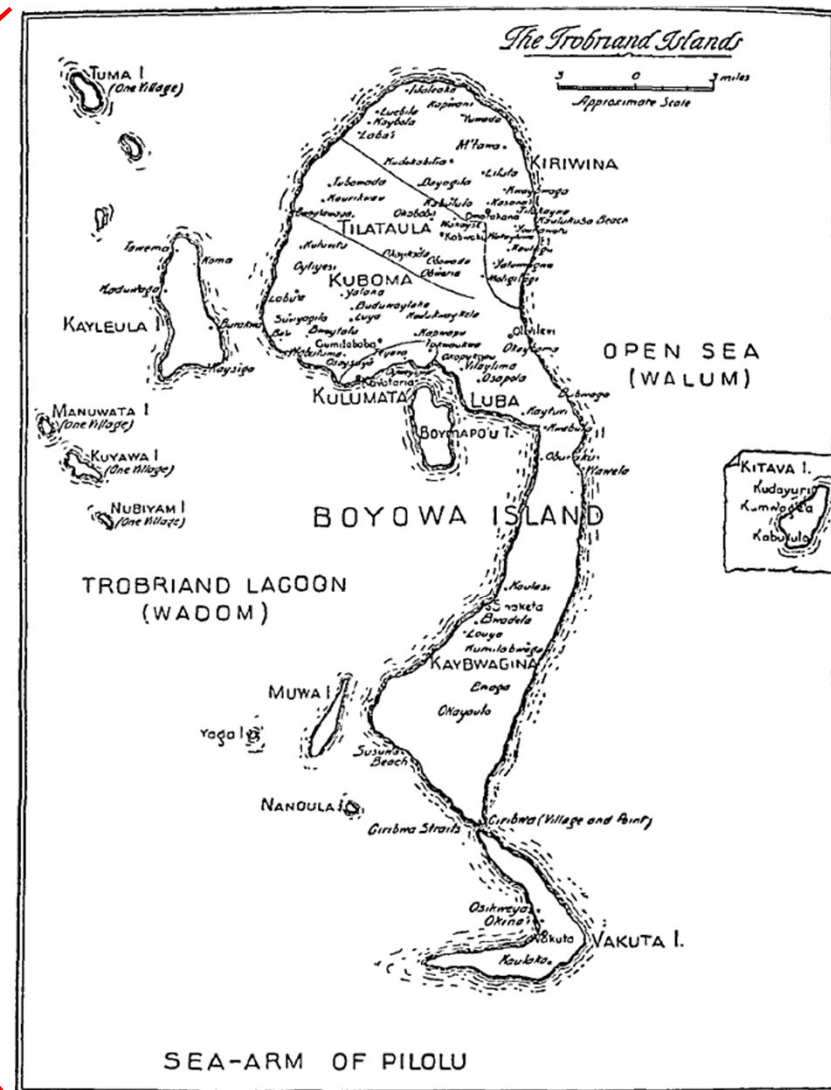
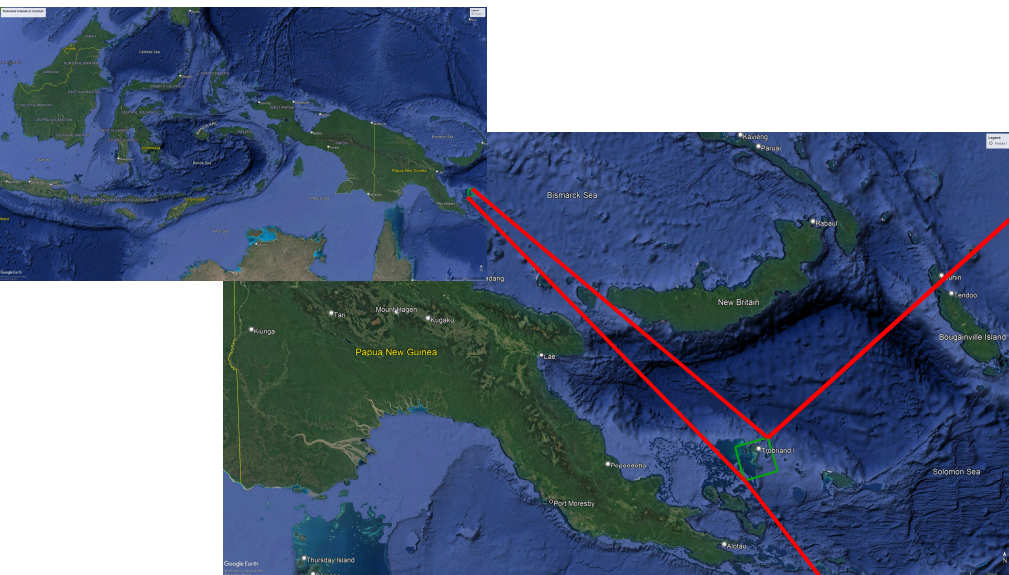


FIG. 1. MAP OF THE TROBRIAND ISLANDS.
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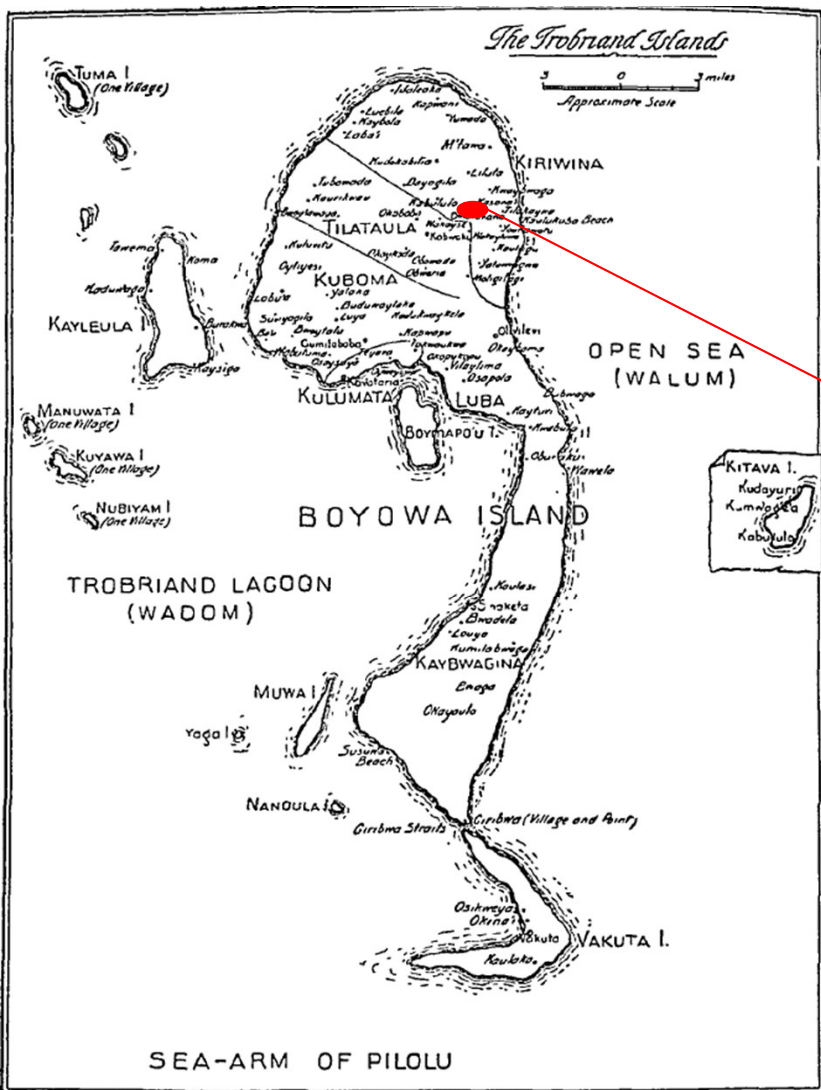


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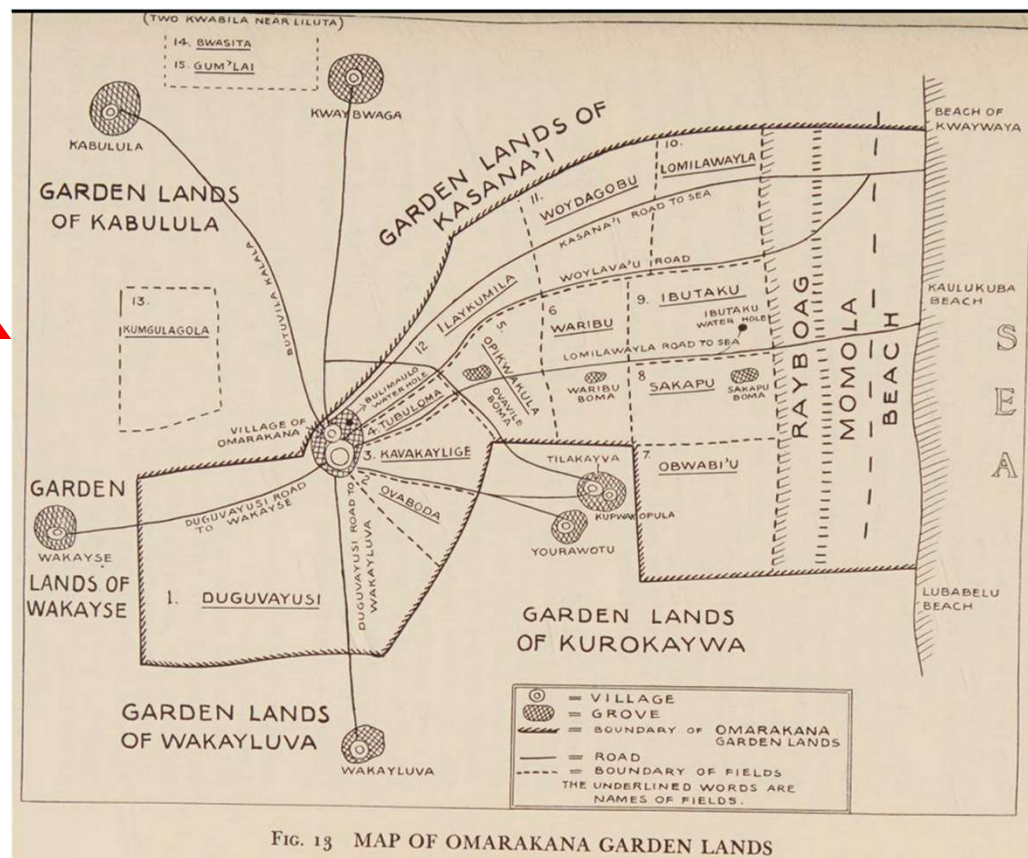
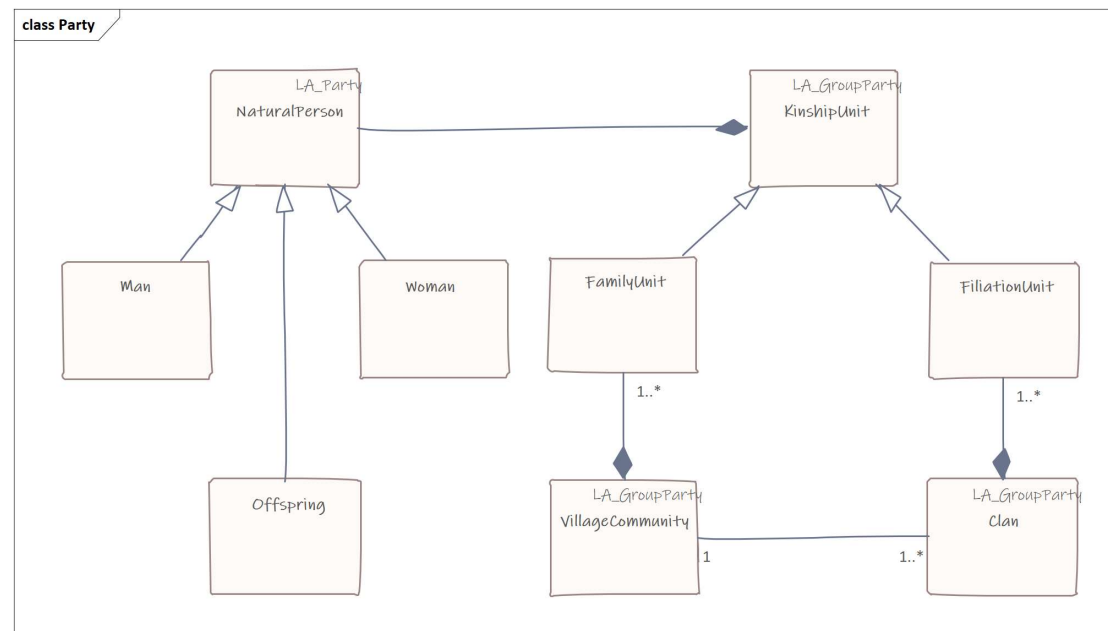
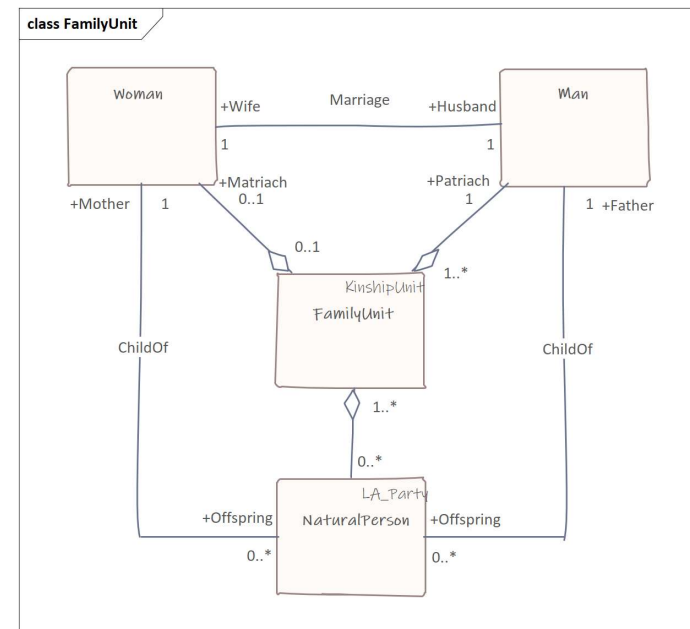
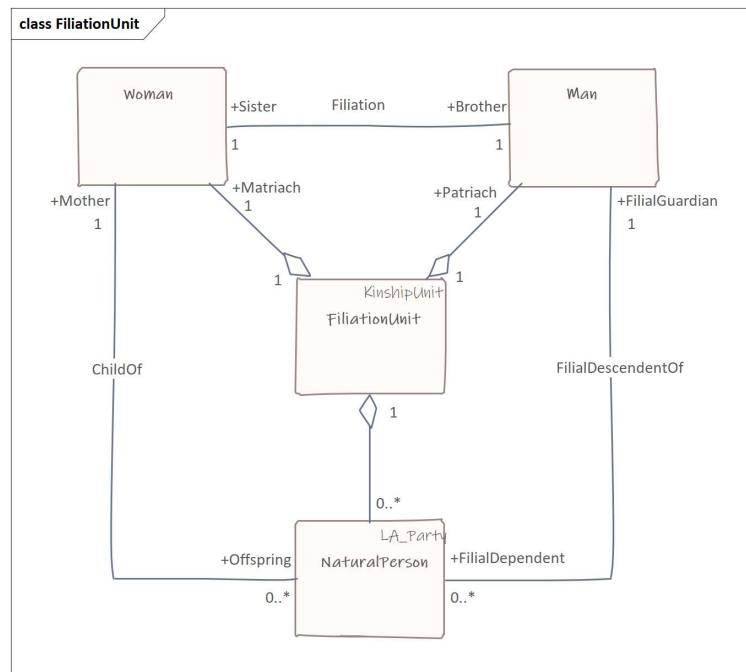


FIG. 13. MAP OF OMARAKANA GARDEN LANDS

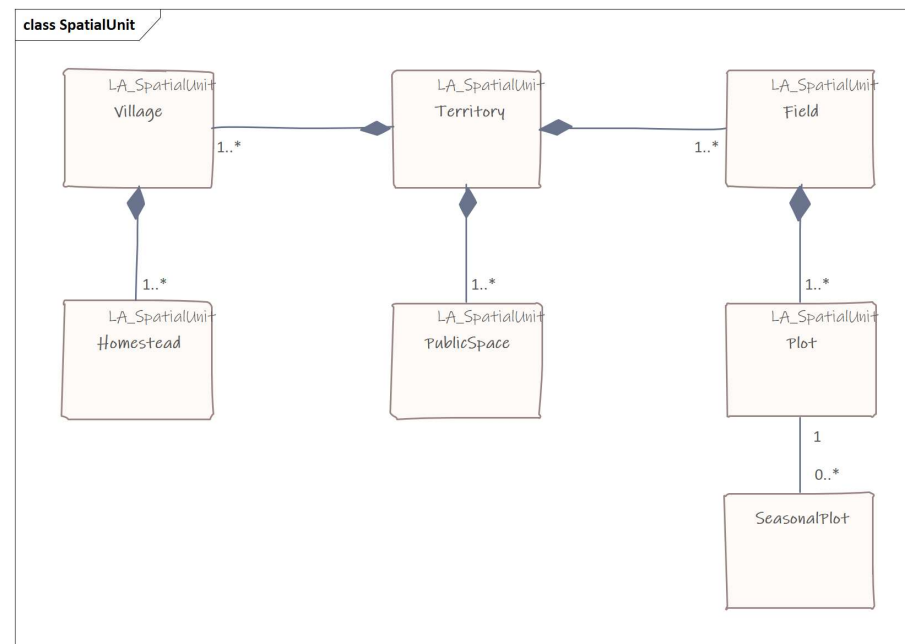
PRIMARY UNITS OF SOCIAL ORGANISATION



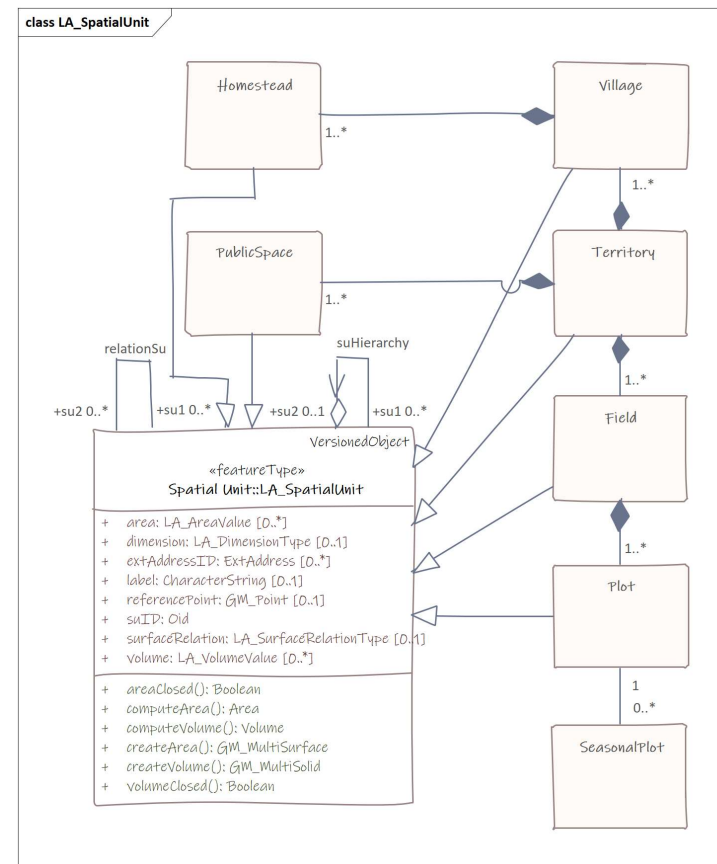
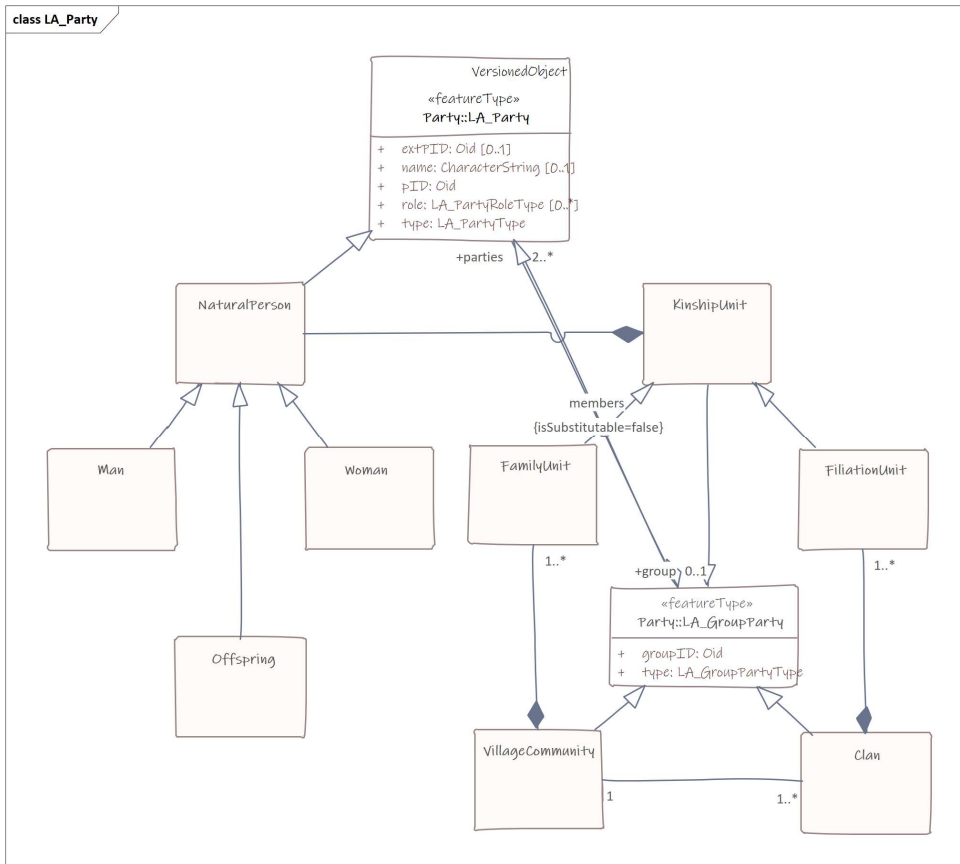
PRIMARY UNITS OF SOCIAL ORGANISATION



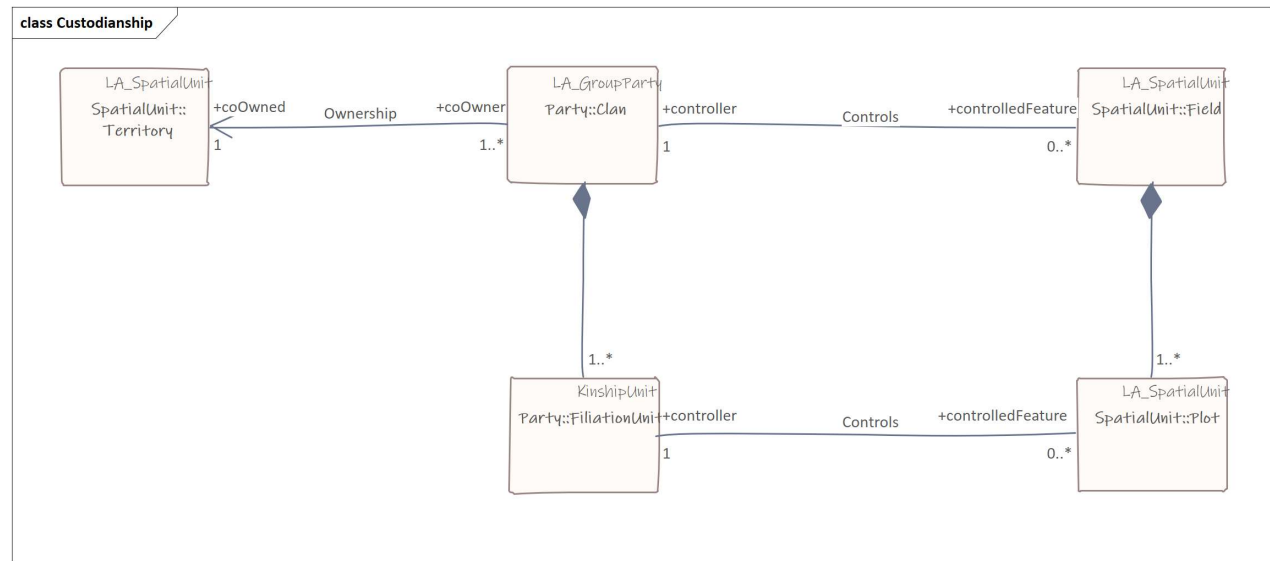
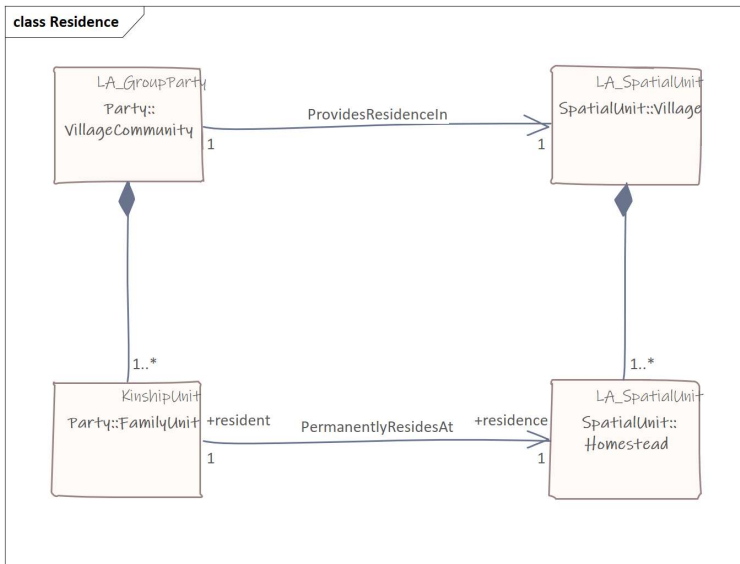
PRIMARY UNITS OF SPATIAL ORGANISATION



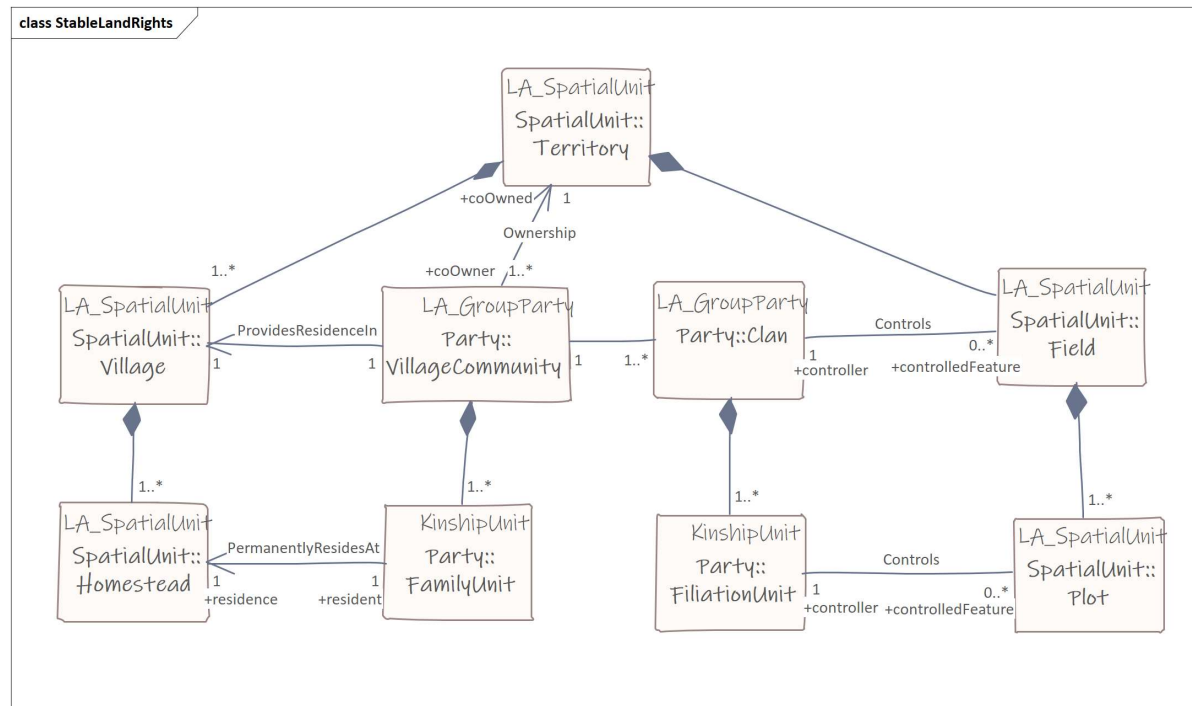
THE ORGANISING ELEMENTS IN LADM



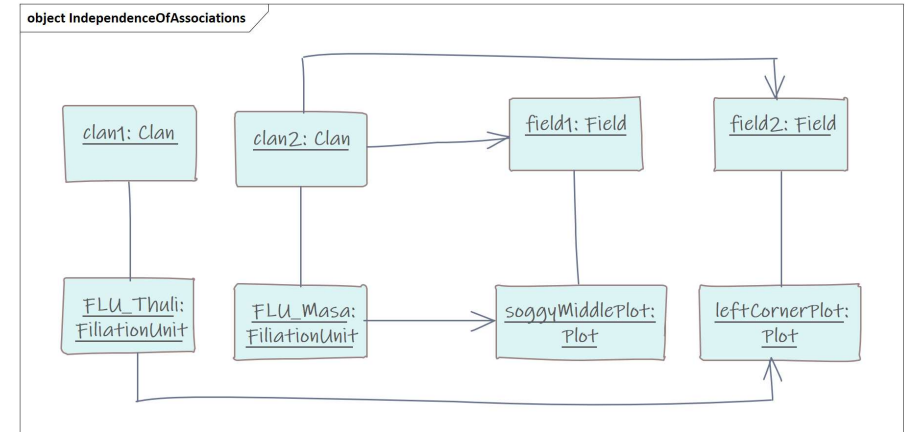
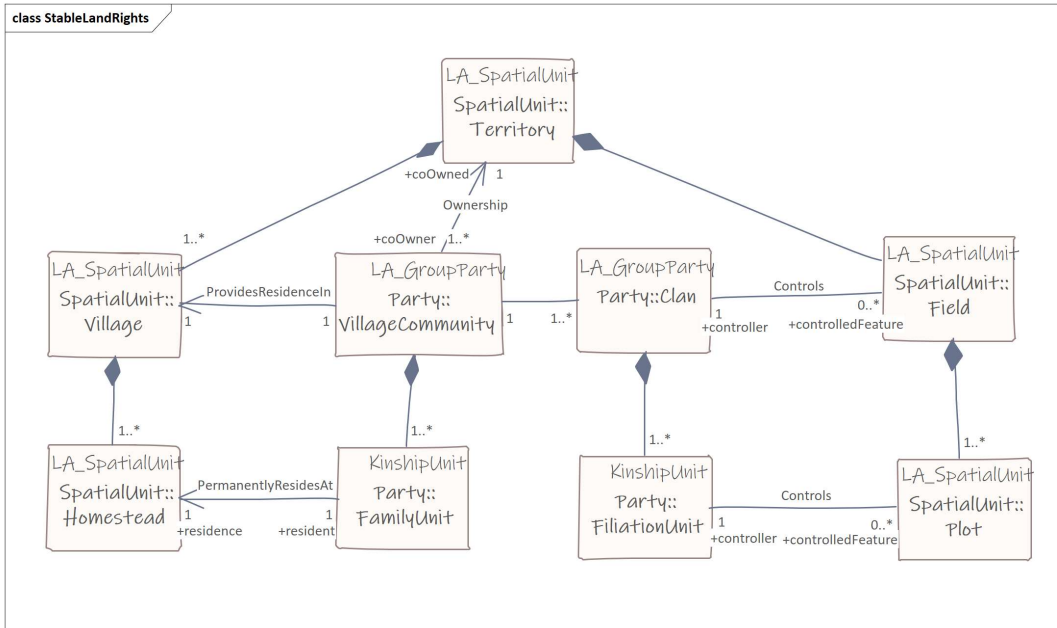
THE STABLE LAND RELATIONS

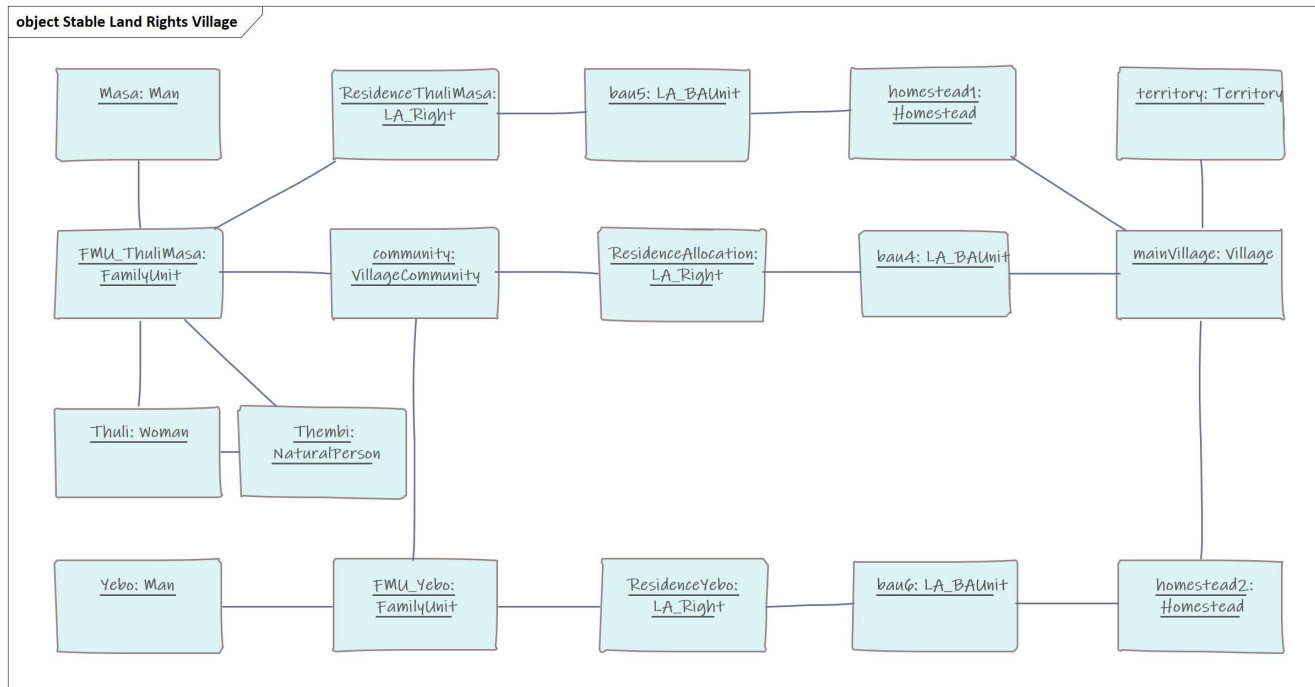


THE STABLE LAND RELATIONS



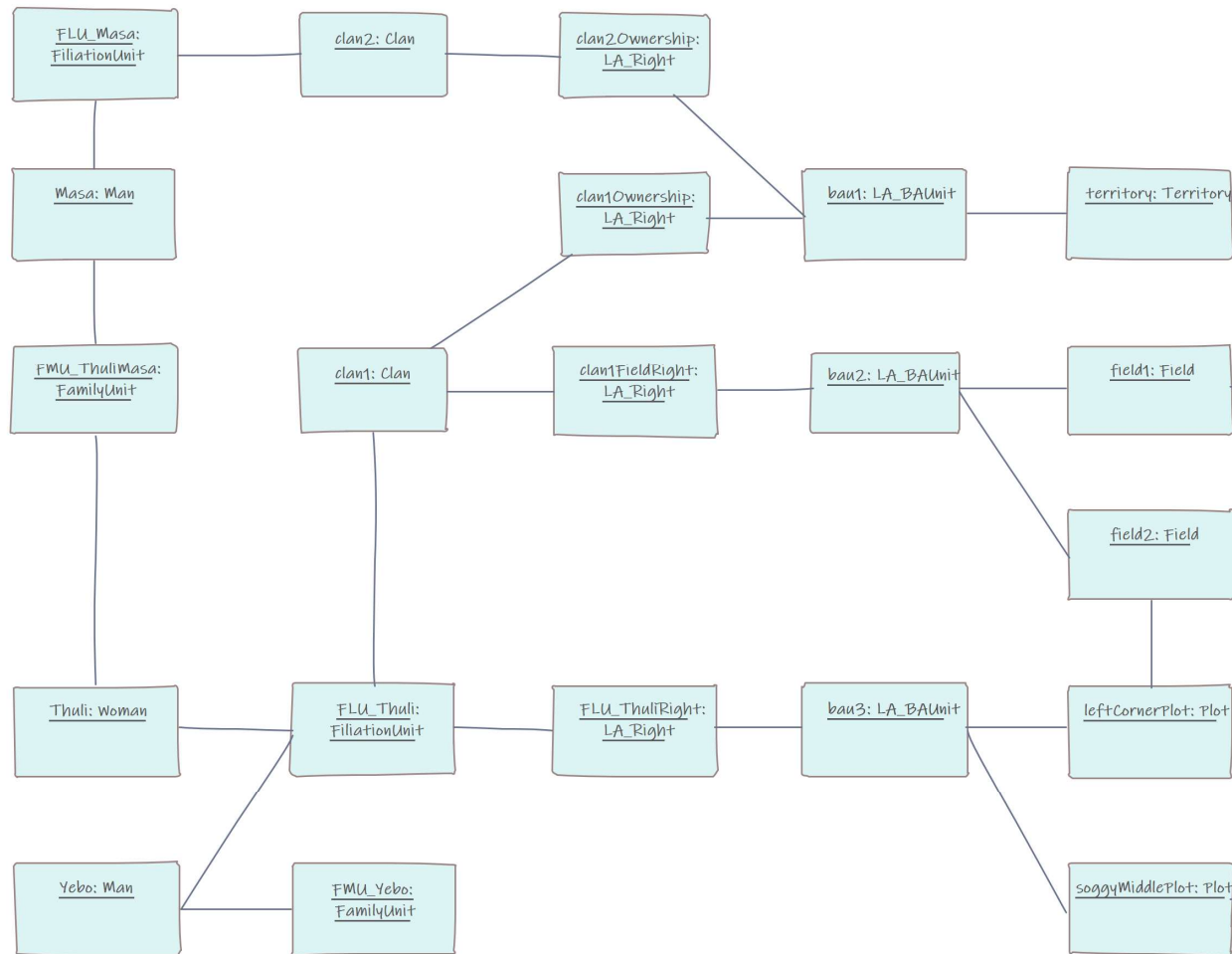
A MODELLING CHALLENGE #1: NO TRANSITIVE CLOSURE IN UML





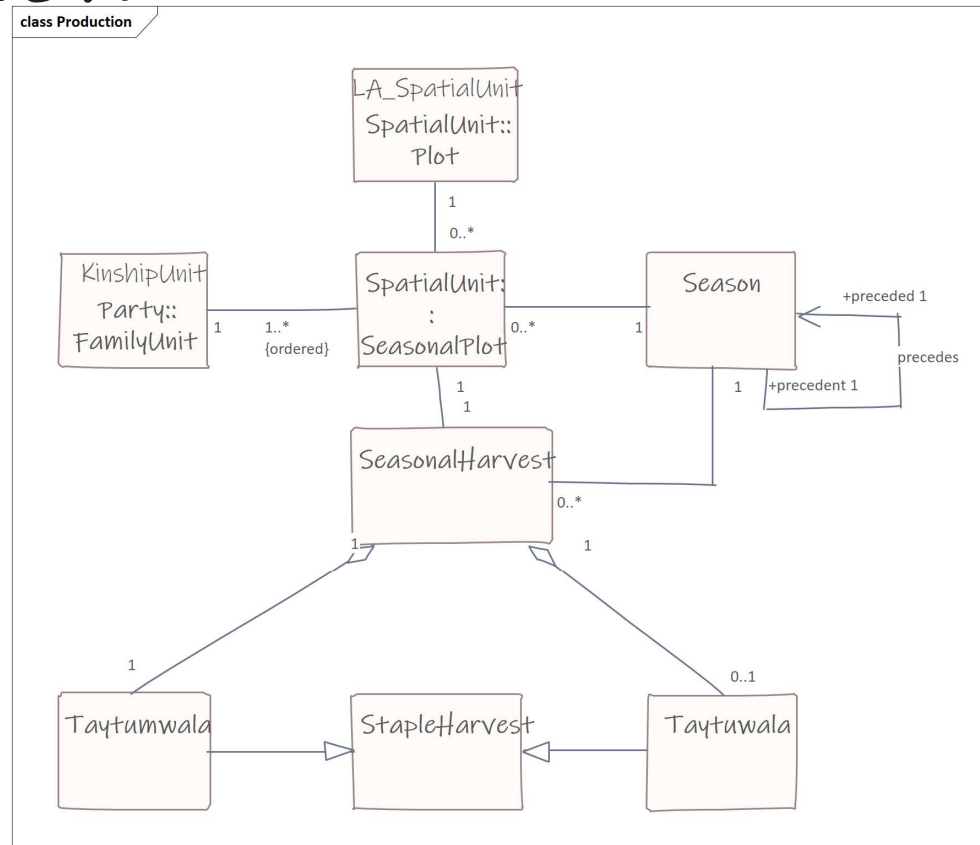
A
CONCRETE
EXAMPLE
IN PROPER
LADM

object Stable Land Rights Fields

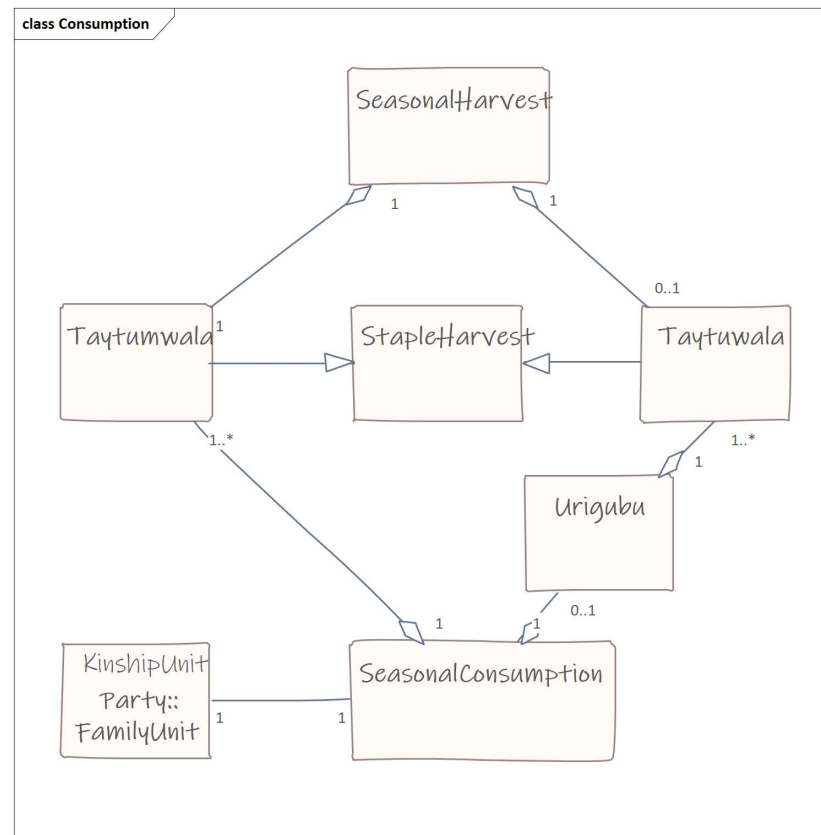


A
CONCRETE
EXAMPLE
IN PROPER
LADM

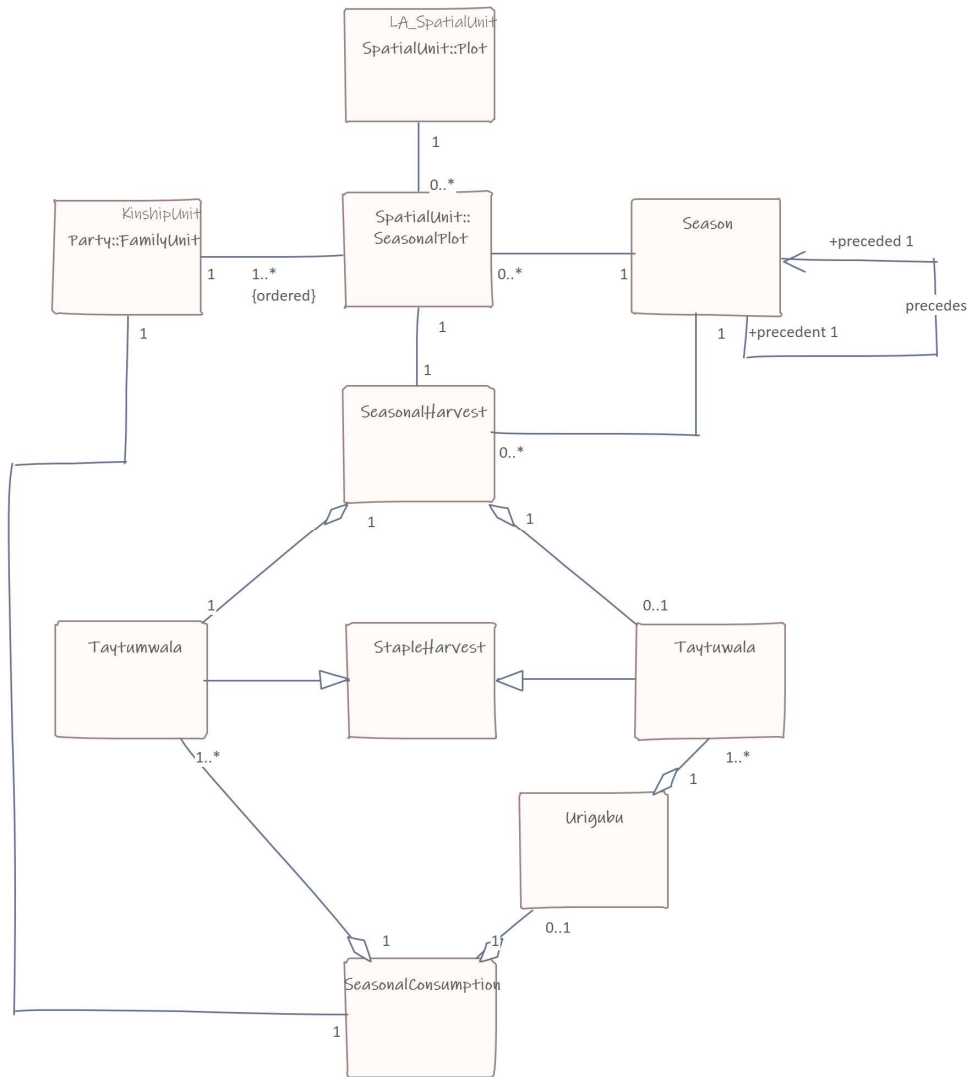
THE DYNAMIC LAND RELATIONS: PRODUCTION



THE DYNAMIC LAND RELATIONS: CONSUMPTION

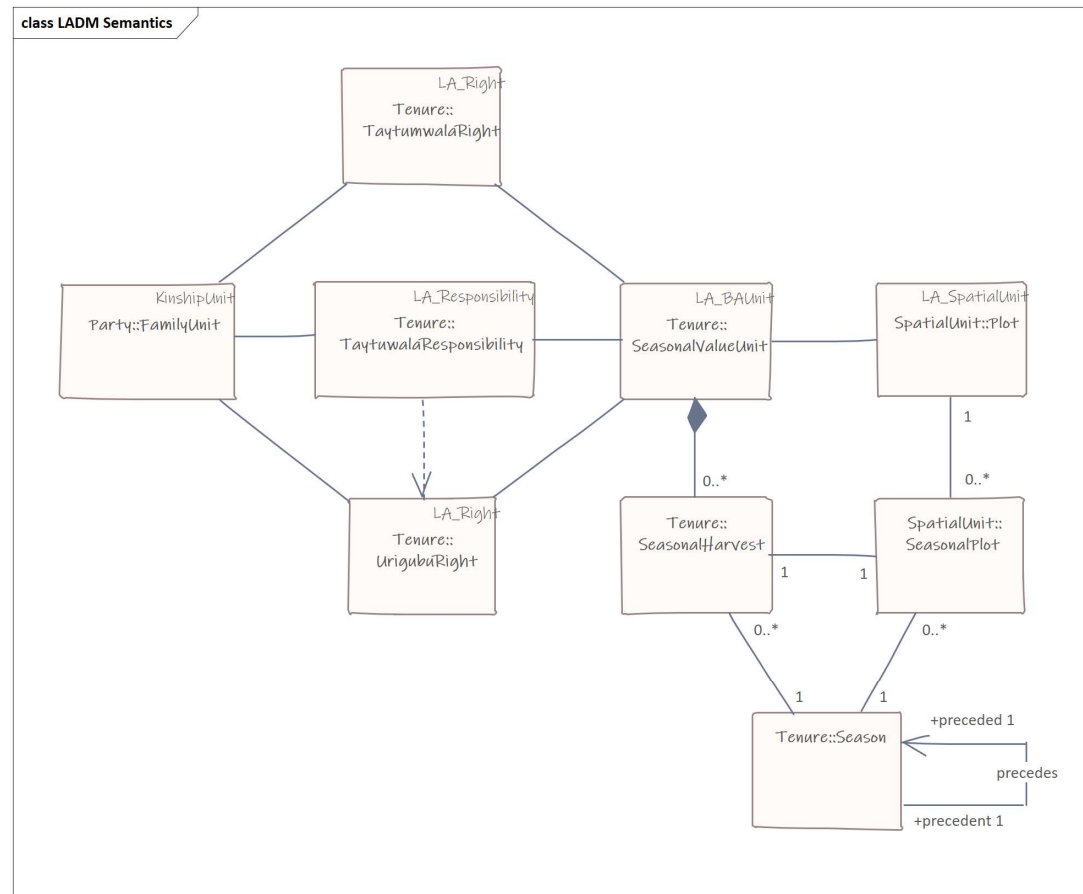


class DistributionAndConsumption



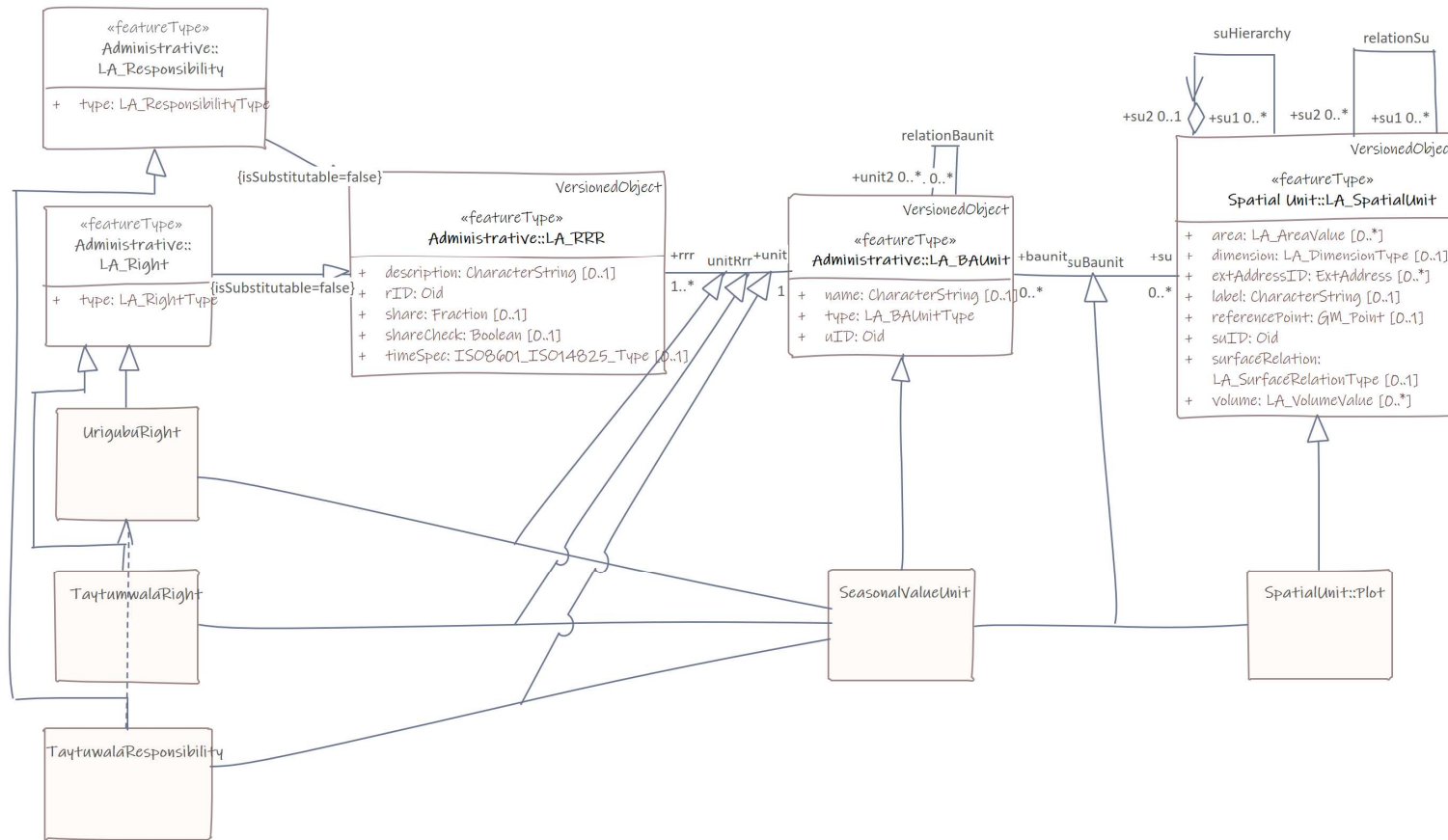
THE DYNAMIC LAND RELATIONS COMBINED

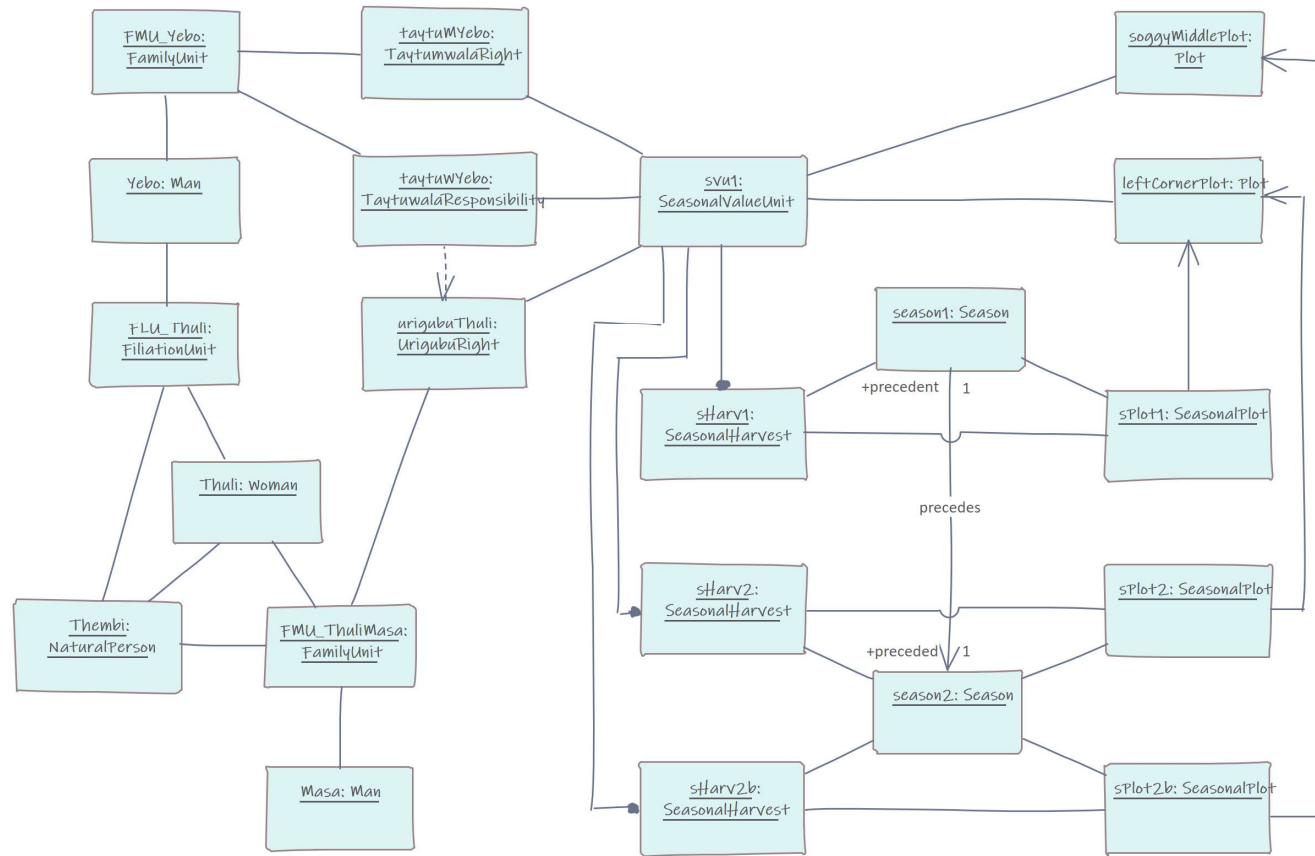
... IN LADM



... IN LADM

class RRRSemantics





A
CONCRETE
EXAMPLE
IN PROPER
LADM

SUMMARY

- *Understanding function and form*
- *Land tenure can have distinct but interacting dimensions (not monolithic)*
- *LADM can capture diverse forms of tenure*
- *More expressive forms for LADM modelling (or implementation)*

THANK YOU!

QUESTIONS?

