



# Using IHE in the exchange of Laboratory orders in the Netherlands

IHE Netherlands  
Lab Working Group

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# Background

- **IHE-Lab started December 2007**
- **“Joint” initiative between IHE Netherlands and NICTIZ**
- **Goal**
  - Define use-cases for national exchange of lab-information
  - Define interoperability specification taking Dutch Healthcare Infrastructure into account
- **Involvement from NVKC, NVMM and vendors**

# Methodology

## ● Phase I (done)

- “User driven”
- Defining “use-cases”

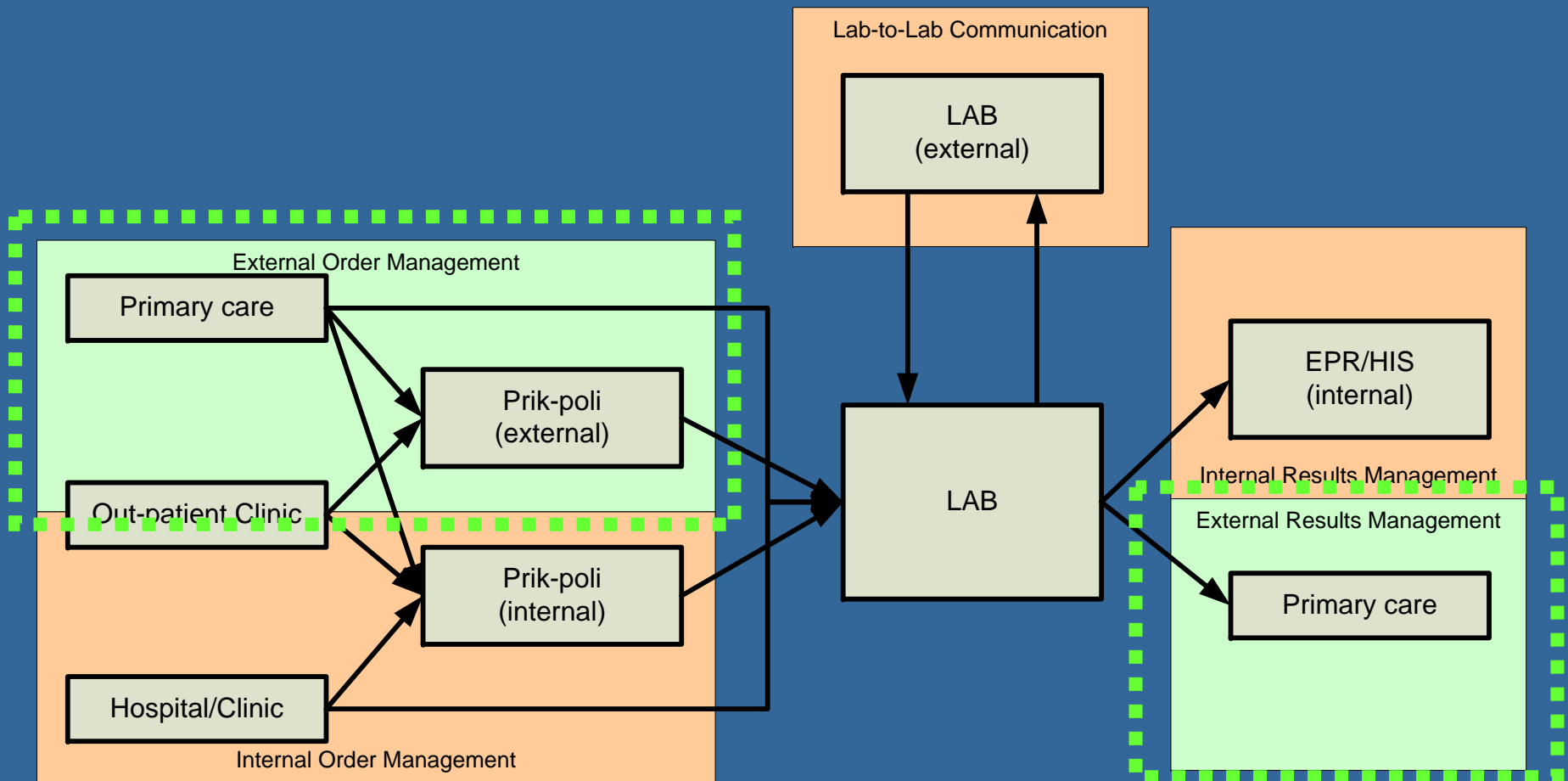
## ● Phase 2 (in progress)

- “Defining technical details”
  - Data format and transport protocol

## ● Phase 3

- Proof-of-concept

# Phase 1: Selecting Use-cases



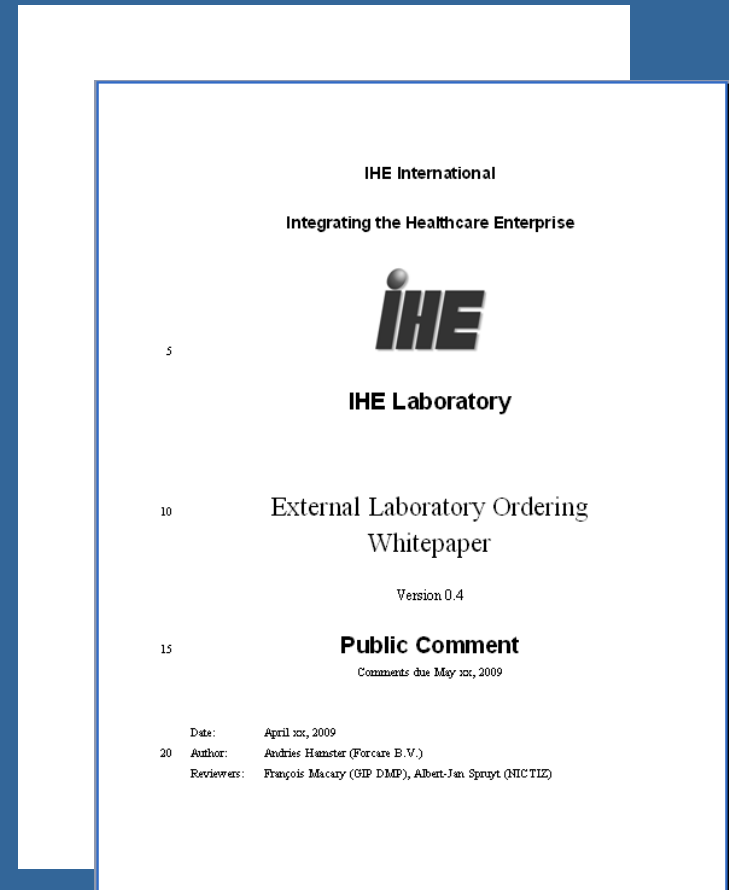
# Phase 1: Use-cases

## ● Phase I – use cases

- Creatinine blood test
- Epstein Barr Virus blood test
- Tuberculosis test
- Urinary tract infection test
- Q-Fever

## ● Conclusions

- Focus on “external lab referral”
- Focus on “sharing lab results”
- Investigate the use of HL7v3 CDA as data format for both “order” and “result”

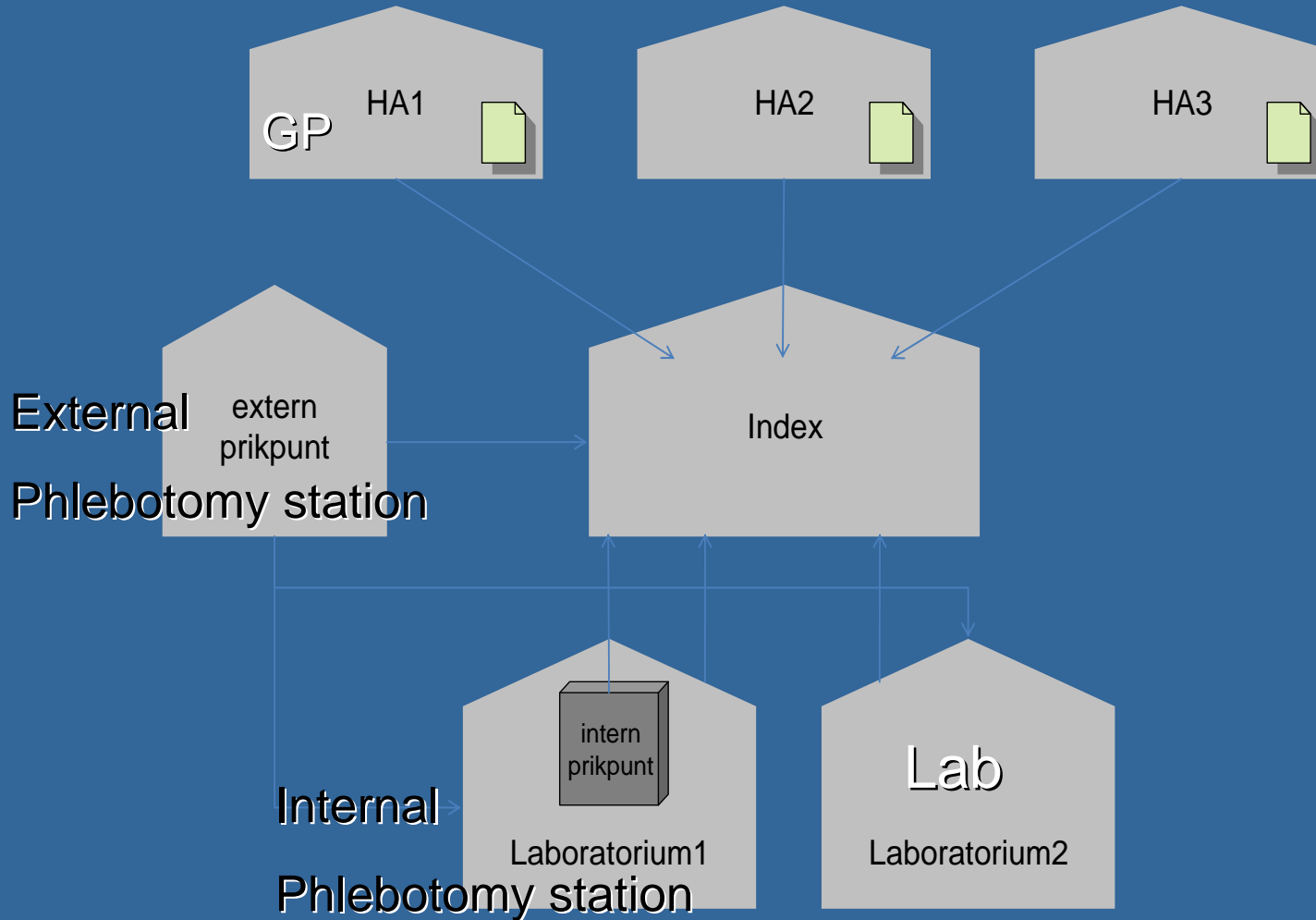


# Fase 2 (In Progress)

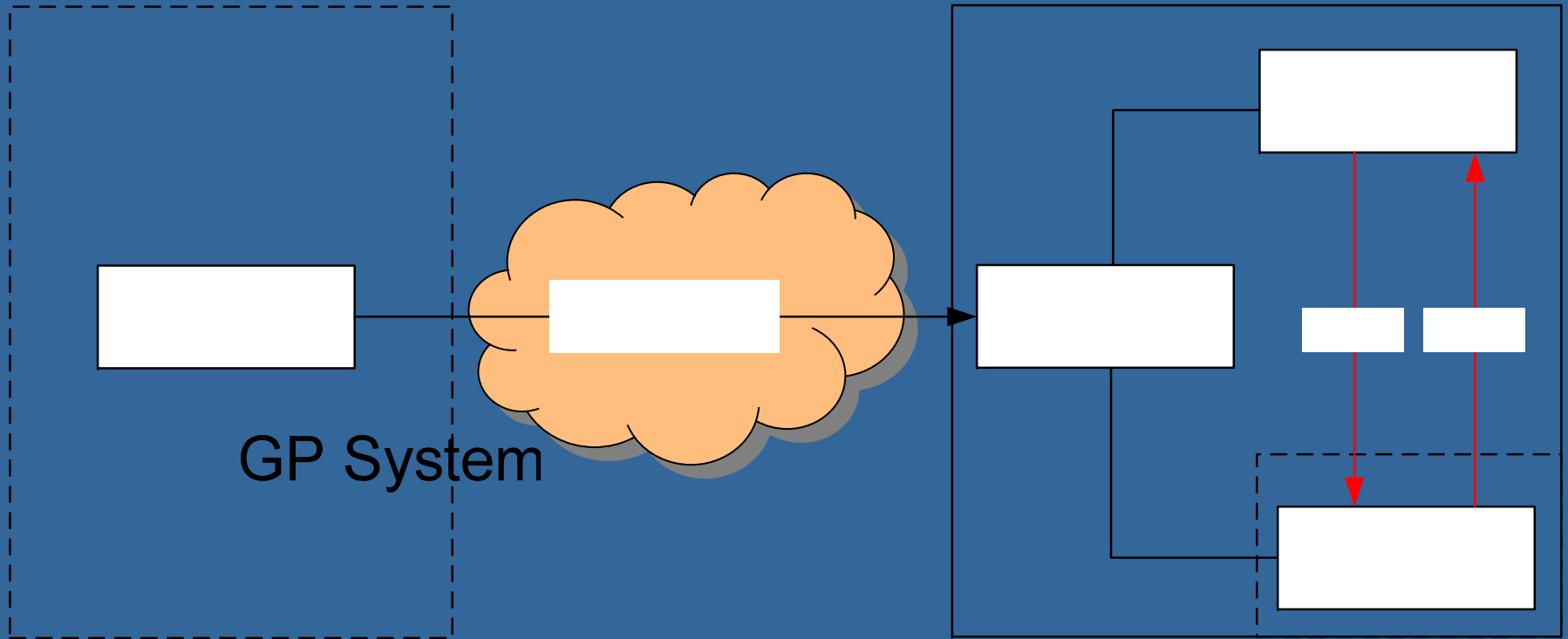
- **Technical deep-dive on use-cases**
- **Define and review (technical) interactions between actors including the Dutch Healthcare infrastructure (AORTA)**
- **Define a lab-order information model**
- **Investigate use of HL7 v3**

# Technical deep-dive

Scenario HA, prikpost, lab



# Technical Deep-dive



Analogy with Document based Referral Request Profile

# Standards Selection

## ● Main debate

- Should the “lab referral” be a document or a message?
- Focus on key set of select criteria (persistence, ownership, signature, readability, etc.)

## ● Conclusion

- Order should be an electronic document
- Main criteria: persistence, readability
- Lab results should also be an electronic document to stay consistent (less clear for Clin. Chemistry)
- Model Lab request with an HL7v3 CDA document

# Current developments

- **Progressing towards a “content profile”**

- Describes a CDA document
- Reference by Dutch “implementation guide”

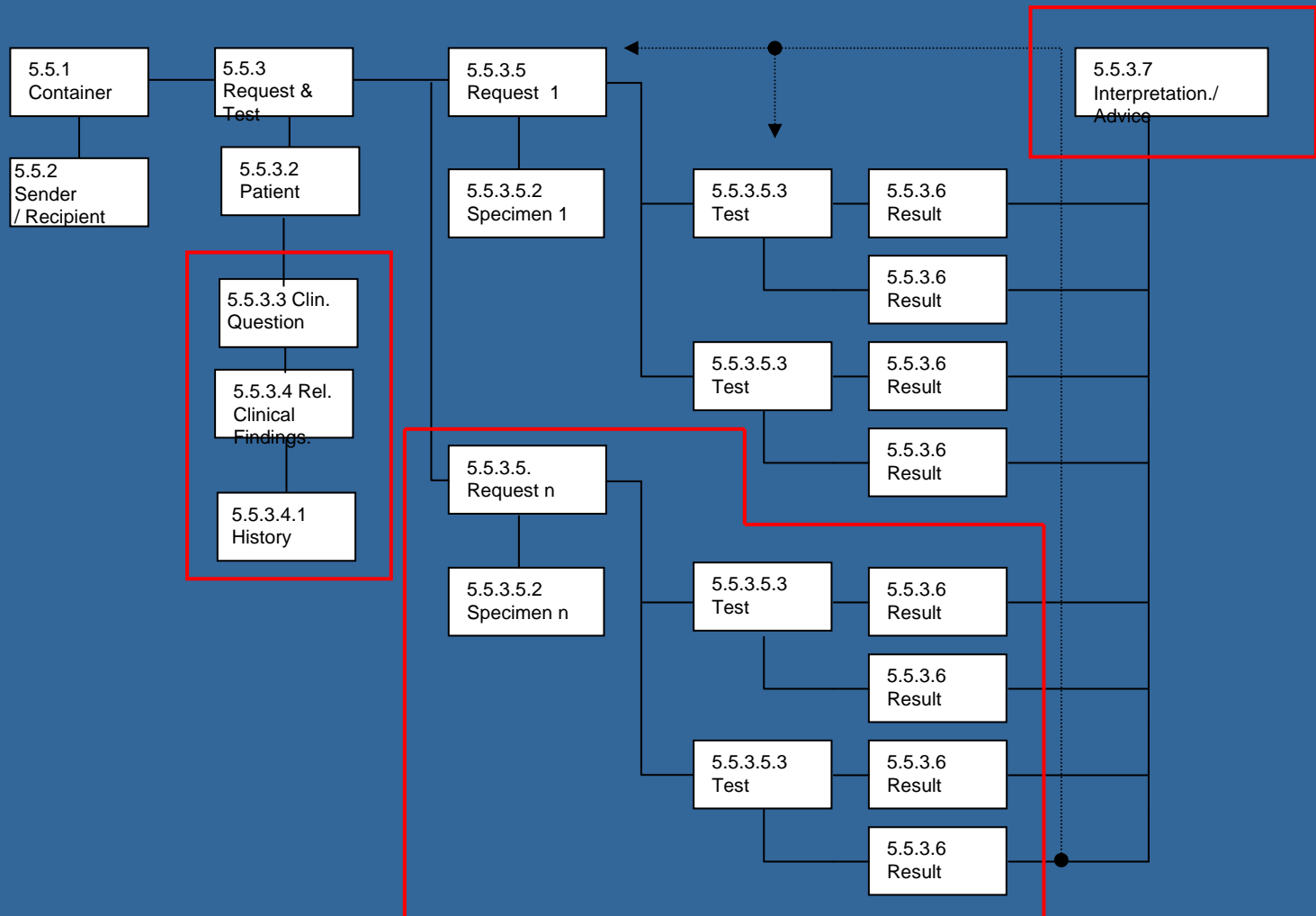
- **“Easy part”**

- HL7 CDA header (patient details, author details etc.)

- **Hard part**

- Modeling the Lab order (structured body)

# NTA 7508 (Information model)





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