Guide for Multidisciplinary Oncology Consultation

Evert Sanders

IHE THE NETHERLANDS | Integrating the Healthcare Enterprise

IHE-NL Working group Care Processes

In consultation with

NABON/ SONCOS

IKNL/NCR

Evert Sanders,
> Radiologist at Amphia Hospital Breda
> User chair IHE Nederland
> Member informatics-section
> > of the Dutch society of radiology

- **Tumour board meetings (MDO):**
  - A lot of different types
  - 220.000 MDO's per year in the Netherlands
  - Regional, inter regional, national teams
  - Broad aspect of information exchange
  - A single Academic centre imports 40.000 DVD's per year
  - Only radiology/NM images!!

Breast record

Position Tumour board

29/06/21

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Dr. J. (Janneke) Verloop,
secretaris, NABON

Dr. M. (Maud) Bessems,
chirurg-oncoloog, Jeroen Bosch
Ziekenhuis

Dr. C. (Carla) Meeuwis,
radioloog, Rijnstate Arnhem

A. Wagenvoort,
radioloog, Noordwest
Ziekenhuisgroep

Drs. L. Saes,
internist-oncoloog, Erasmus MC

Dr. C.P.H. (Celien) Vreuls,
patholoog, UMCU

Drs. F. (Floor) Klijn,
klinisch informaticus, IKNL

Drs. L. (Lidy) M.H. Wijers,
radioloog, Alrijne ziekenhuis

Dr. I. (Ilse) Jannink,
chirurg-oncoloog, Haga
ziekenhuis

Dr. P.J. (Pieter) Westenend,
patholoog, PAL Dordrecht

Medical oncologist

Radiologist

Surgical oncologists

Pathologist

Clinical computer scientist
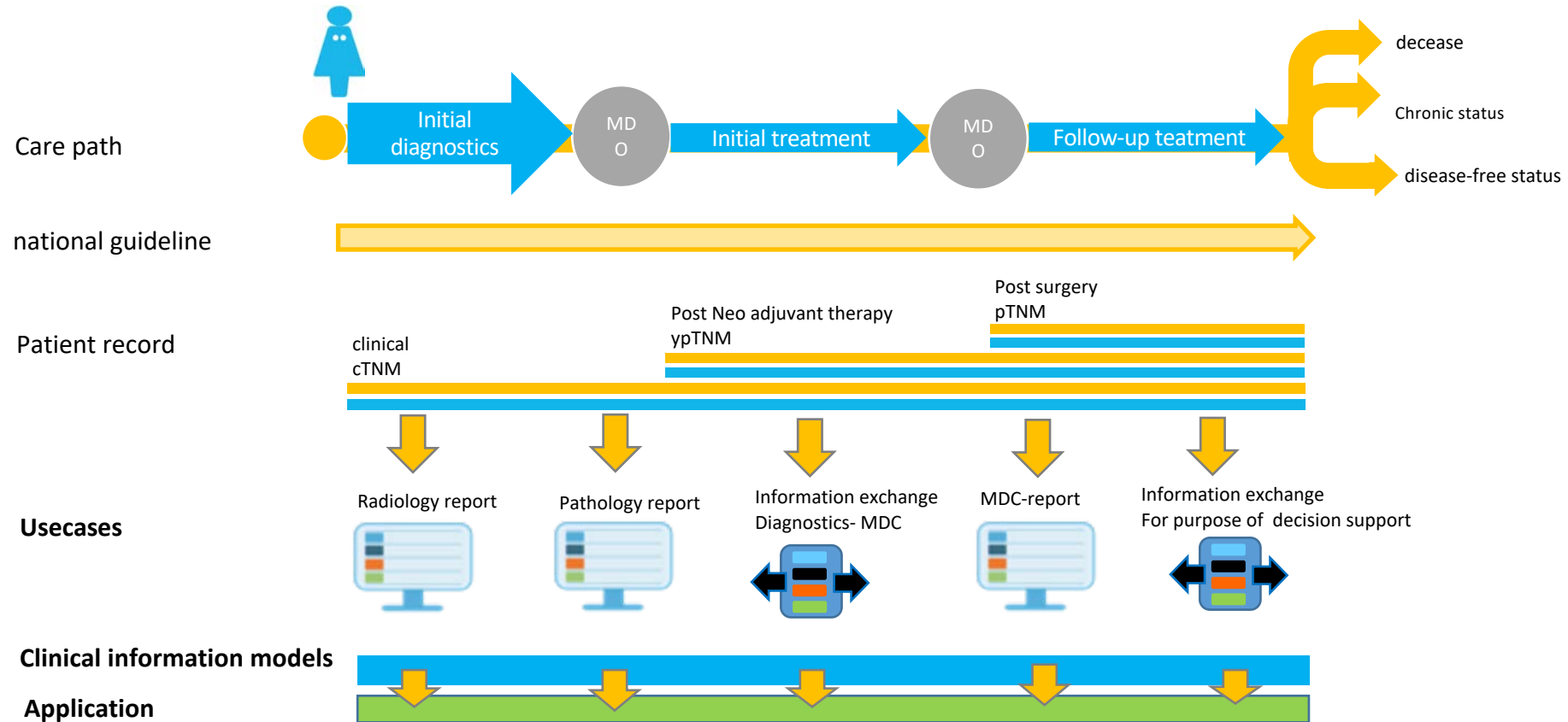
semantic interoperability   technical interoperability

Healthcare professional   IT dept. / EHR vendor

- Choose for an approach that will work for each EHR vendor instead of working in Content group for each EHR

- Ensure that their process is leading instead of the EHR vendor

- Developed guideline breast cancer - what are user triggers for implementing

Challenges:

- How to get this implemented in systems

- No knowledge to translate their guideline into technical specs for the vendors

- No resources (people and money)

to take more direction on elektronic information exchange in healthcare

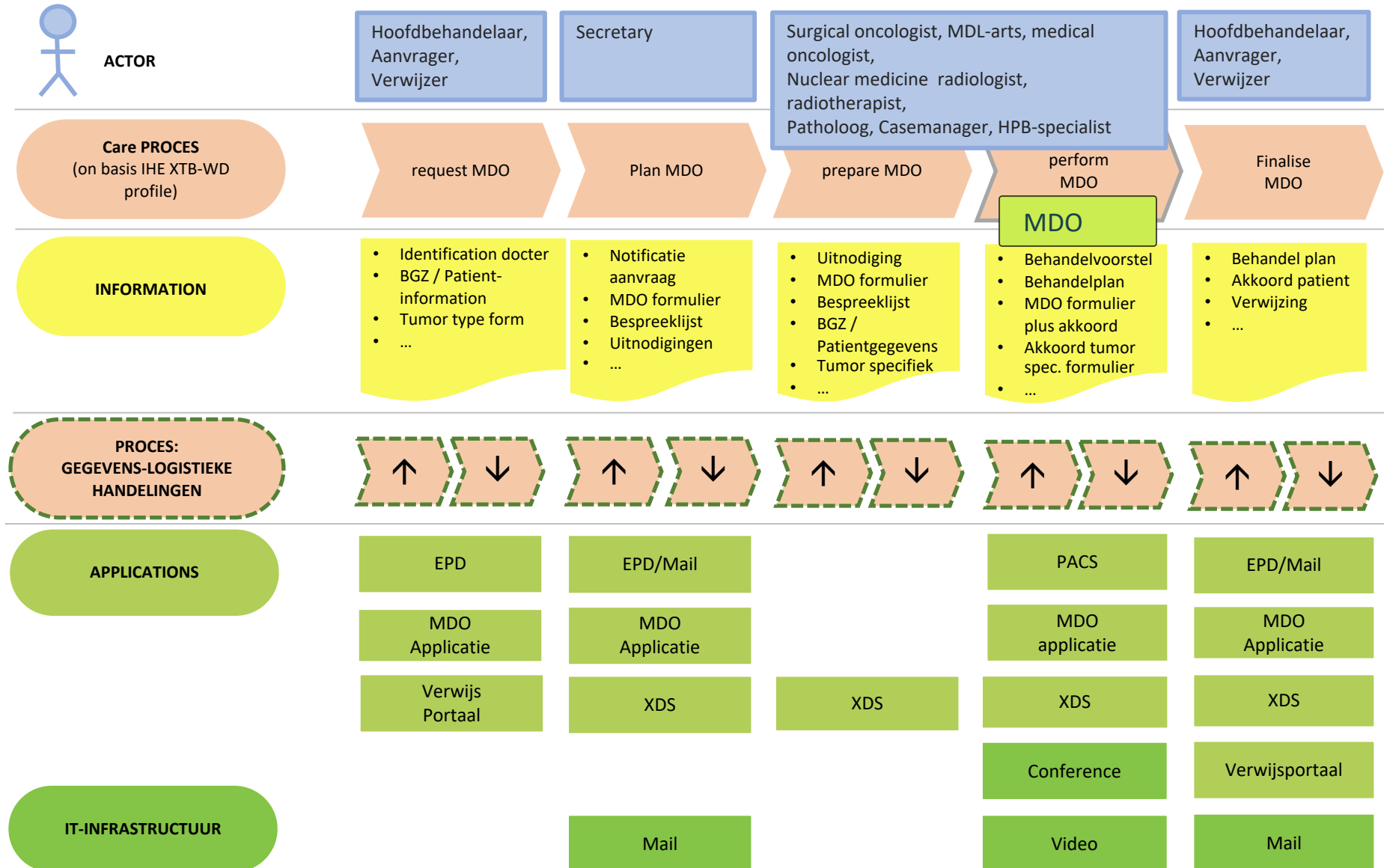MoH organised consultations for chosing the priorities

Started in 2018

- To model complex healthcare processes with focus on information- and exchange-standards
- Short term
  - Gather and describe multidisciplinary processes between multiple organisations
- Mid term
  - Translate **generic** healthcare processes into (technical) implementation
- Long term
  - Knowledge Centre for Process- and ICT-professionals

- Primary focus on supporting healthcare professionals
- Healthcare process as starting point
- Healthcare process is leading for technical specs
- Outcome is not only focussed on IHE profiles, but on what is needed for the process
- Participants are Users (healthcare/IT professionals, public services, MoH) and vendors
  - Enterprise Architect MoH participated several sessions
  - Chair of the Working Group is on a hiring role at MoH

Tumour Board-proces (draft)

(based on IHE XTB-WD profile, inspired on MUMC case and projected on Nictiz interopmodel)

ACTOR	Hoofdbehandelaar, Aanvrager, Verwijzer	Secretary	Surgical oncologist, MDL-arts, medical oncologist, Nuclear medicine radiologist, radiotherapist, Patholoog, Casemanager, HPB-specialist		Hoofdbehandelaar, Aanvrager, Verwijzer
Care PROCES (on basis IHE XTB-WD profile)	request MDO	Plan MDO	prepare MDO	perform MDO / MDO	Finalise MDO
INFORMATION	• Identification docter • BGZ / Patient-information • Tumor type form • …	• Notificatie aanvraag • MDO formulier • Bespreeklijst • Uitnodigingen • …	• Uitnodiging • MDO formulier • Bespreeklijst • BGZ / Patientgegevens • Tumor specifiek • …	• Behandelvoorstel • Behandelplan • MDO formulier plus akkoord • Akkoord tumor spec. formulier • …	• Behandel plan • Akkoord patient • Verwijzing • …
PROCES: GEGEVENS-LOGISTIEKE HANDELINGEN	↑ ↓	↑ ↓	↑ ↓	↑ ↓	↑ ↓
APPLICATIONS	EPD / MDO Applicatie / Verwijs Portaal	EPD/Mail / MDO Applicatie / XDS	XDS	PACS / MDO applicatie / XDS / Conference	EPD/Mail / MDO Applicatie / XDS / Verwijsportaal
IT-INFRASTRUCTUUR		Mail		Video	Mail

CARE PROCES

Workflow
    IHE XTB-WD

INFORMATION

Information standards (semantics)
    DCIM / (in Dutch BGZ)
    Informationstandard Oncology (on basis of national guideline)

Template management
    IHE Management of Radiology Report Templates
    IHE Patient Care coordination profile

Documents (syntax)
    Consultation NVvR, RSNA

APPLICATIONS

Dicom

FHIR, XML

IHE XDS / IHE BPPC (Public Health Repository – Cancer Registry)

IHE PRPH-Ca

APPLICATIONS

IHE ATNA

Workinggroup members

- Ulco de Boer (Beter Healthcare)
- Hans Buurman (IKNL Integraal Kankercentrum Nederland)
- Marlene Gigase (Positive Health Accelerator)
- Martin van Middelkoop (Roche Diagnostics)
- Vincent van Pelt (NICTIZ)
- Fokke Rispens (Visma Connect)
- Igor Schoonbrood (ITCAdvies en Maastricht Universitair Medisch Centrum+)
- Tie Tjee (Beter Healthcare en Vendor-chair IHE Nederland)
- Frans van Tilburg (M&I Partners, chair)

https://www.ihe-nl.org/uploads/bestanden/IHE_MDO_en_Addendum_17_mei_2020_StatusDefinitief.pdf

08 jul 2020

Interest of MoH

Dept. Information Policy
Manager Vendor Management
Presentation at MoH: Nabon, IHE, HL7
Now possibly national VIPP program: acceleration program

Interest of Health insurers (Zorgverzekeraars Nederland, ZN https://www.zn.nl/about-zn)

The umbrella organization of ten health insurers in The Netherlands

ZN awarded a subsidy to a regional MDO project with the restriction that the project must use the IHE Guide!

Some health insurers are considering to buy in healthcare services which are proven interoperable

Effiency
Quality
Transparancy

Healthcare professionals

Were very happy with the help of IHE, they felt supported, so they can focus on their job

Better understand
- the role of IHE
- their role towards the vendors
- their knowledge gap on interoperability

Southern region is going to use the IHE guide for the next Oncology domain (80% reusable)

Strategy for MoH

MoH selected 13 prioritary use cases out of 45

Wants to put them in a new law

Has not one approach for use cases yet

Gave MoH the insight that they need to build national interoperability based on a series of use cases

But MoH must use one approach > IHE!?

    IHE proof 1: Regional MDO Oncology use case

    IHE proof 2: Regional Laboratory use case

Positioning IHE on the basis of the next questions to MoH

Who is going to do the governance about this Guide? Version management

Who should have a role in the governance?

IHE Working group Care Processes?

Volunteers…

Workload and impact needs formal role and budget

National Academy of Medicine - Procuring interoperability

https://nam.edu/wp-content/uploads/2018/10/Procuring-Interoperability_web.pdf

When it comes to procuring digital services for health and health care systems, **interoperability is simply not yet an effectively structured component of either the supply or the demand equations, nor of the links between the two.**

In contrast to many other industries, **the purchasers of health care technology have not fully leveraged their individual or collective purchasing power to require interoperability from the health technology marketplace.**

With better procurement practices, supported by the **establishment of shared interoperability platform and architecture**, health care systems can prepare themselves to advance much more rapidly into the person- centric health care environment of the future.

Ihe-nl, https://ihe-nl.org

Soncos, https://www.soncos.org/organisatie

Nabon, https://www.nabon.nl/

Iknl, https://iknl.nl/en