

Introductie voor de verdediging van het proefschrift

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Abstract

Het proefschrift beschrijft een ontwerpmethode voor Embedded Systemen. Embedded Systemen zijn systemen waarin de ingebouwde computers en software een onmisbare rol spelen. Het ontwerpen van deze systemen is gecompliceerd door de vele vakgebieden die bij het ontwerp betrokken zijn. Het CAFCR model vormt de basis van de ontwerpmethode. De ontwerpmethode is achteraf toegepast op een medisch werkstation.

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version: 0.1

logo
TBD

Systemen met ingebouwde computers en software



chip



GSM



MRI scanner



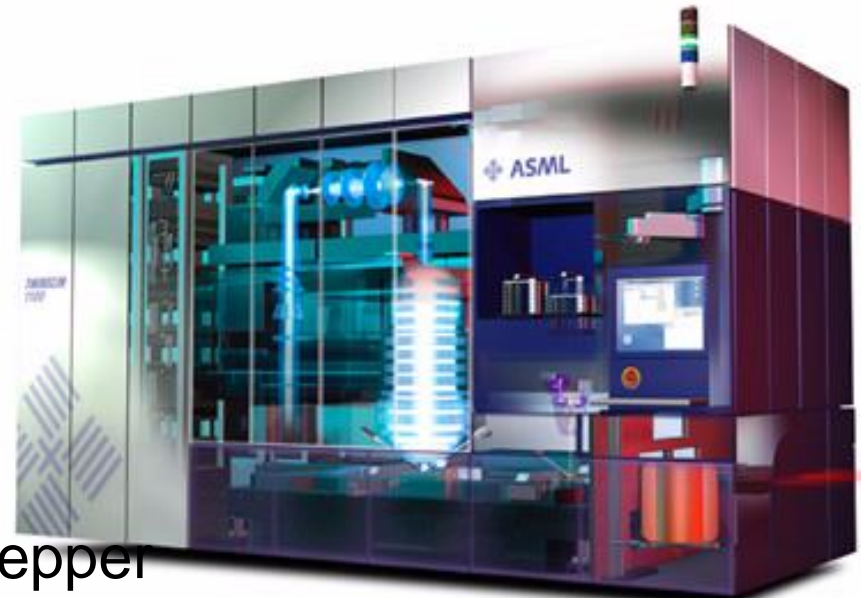
cardio X-ray system



television

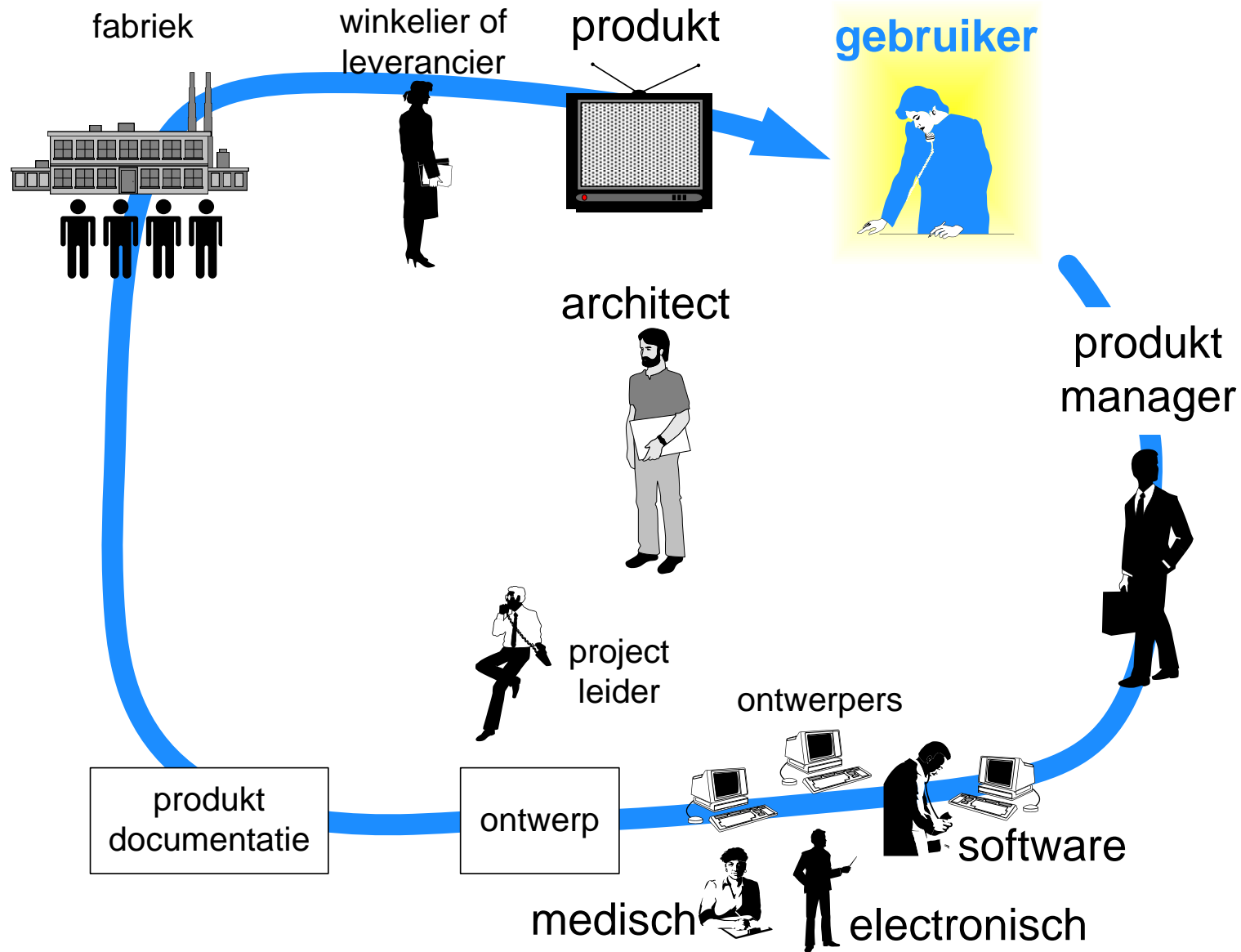


printer

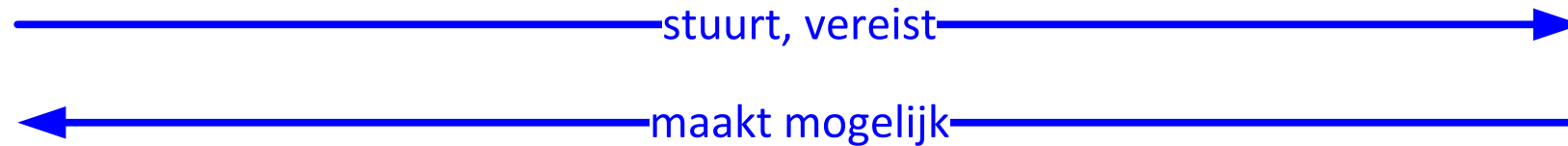


waferstepper

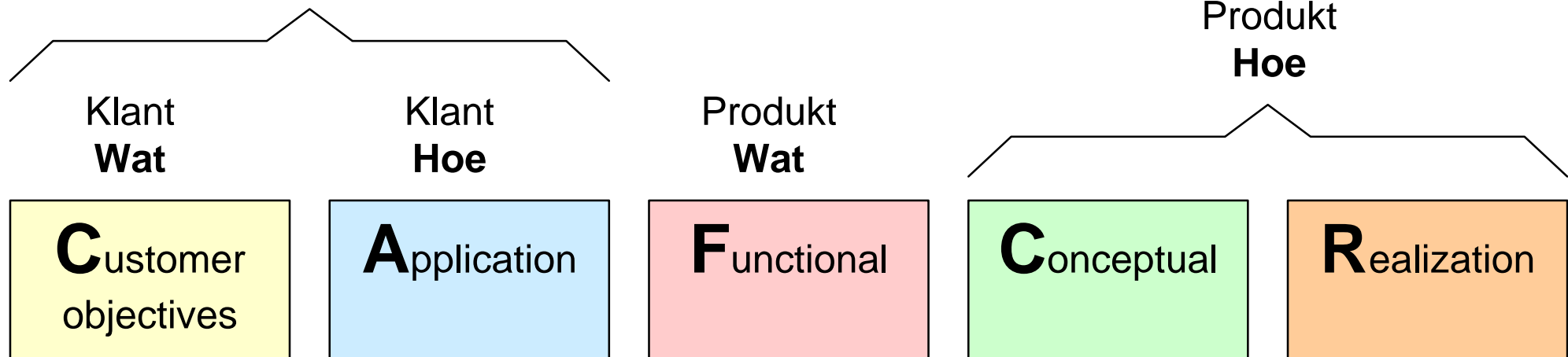
Produkt creatie cyclus: veel vakgebieden



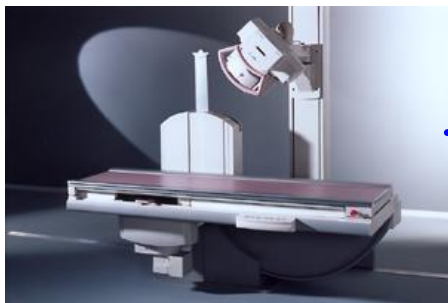
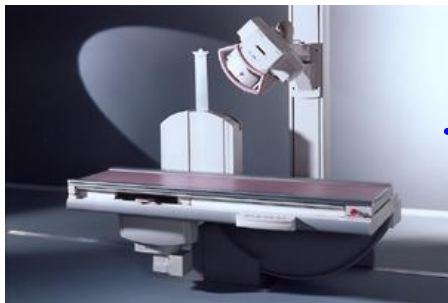
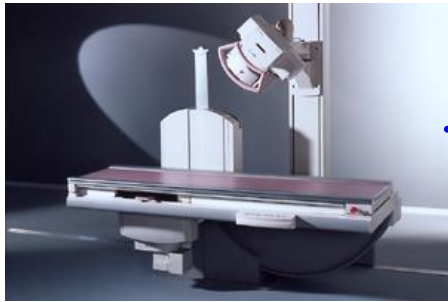
Het CAFCR model: begrijp de klant



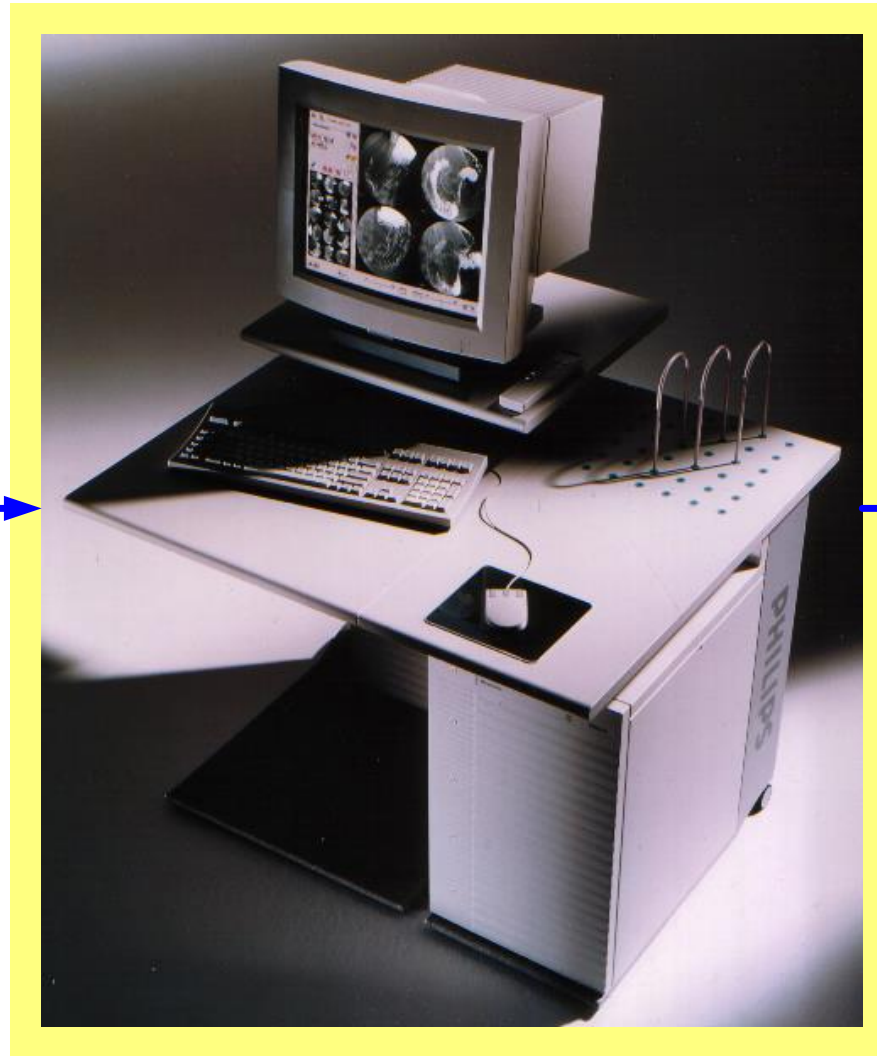
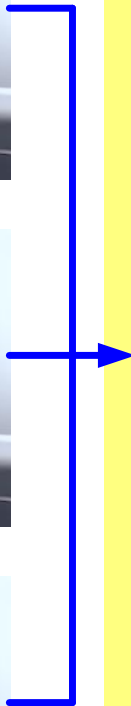
Wat heeft de Klant nodig
in het Produkt en **Waarom?**



Medisch workstation als casus



URF-systems

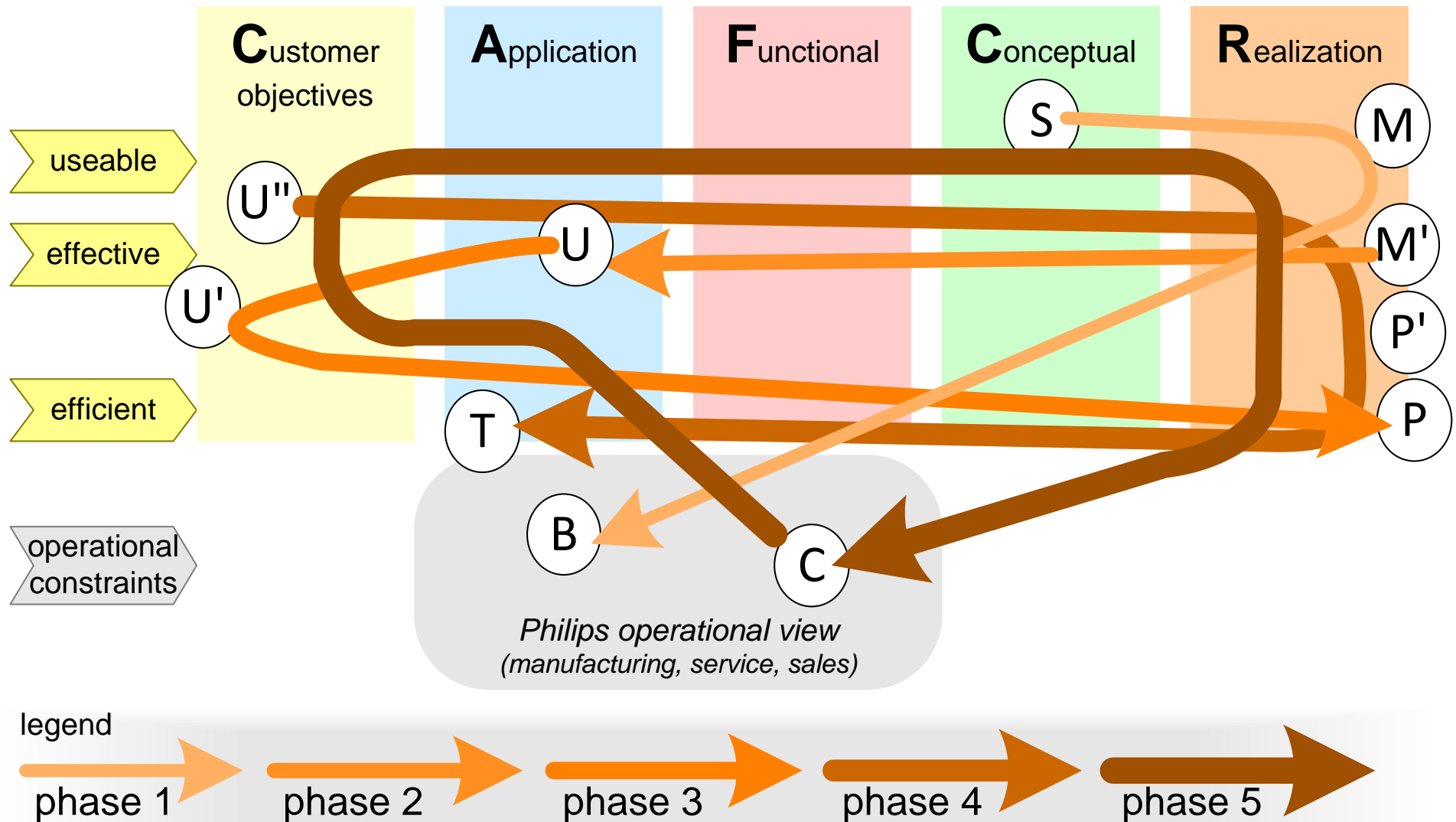


EasyVision: Medical Imaging Workstation

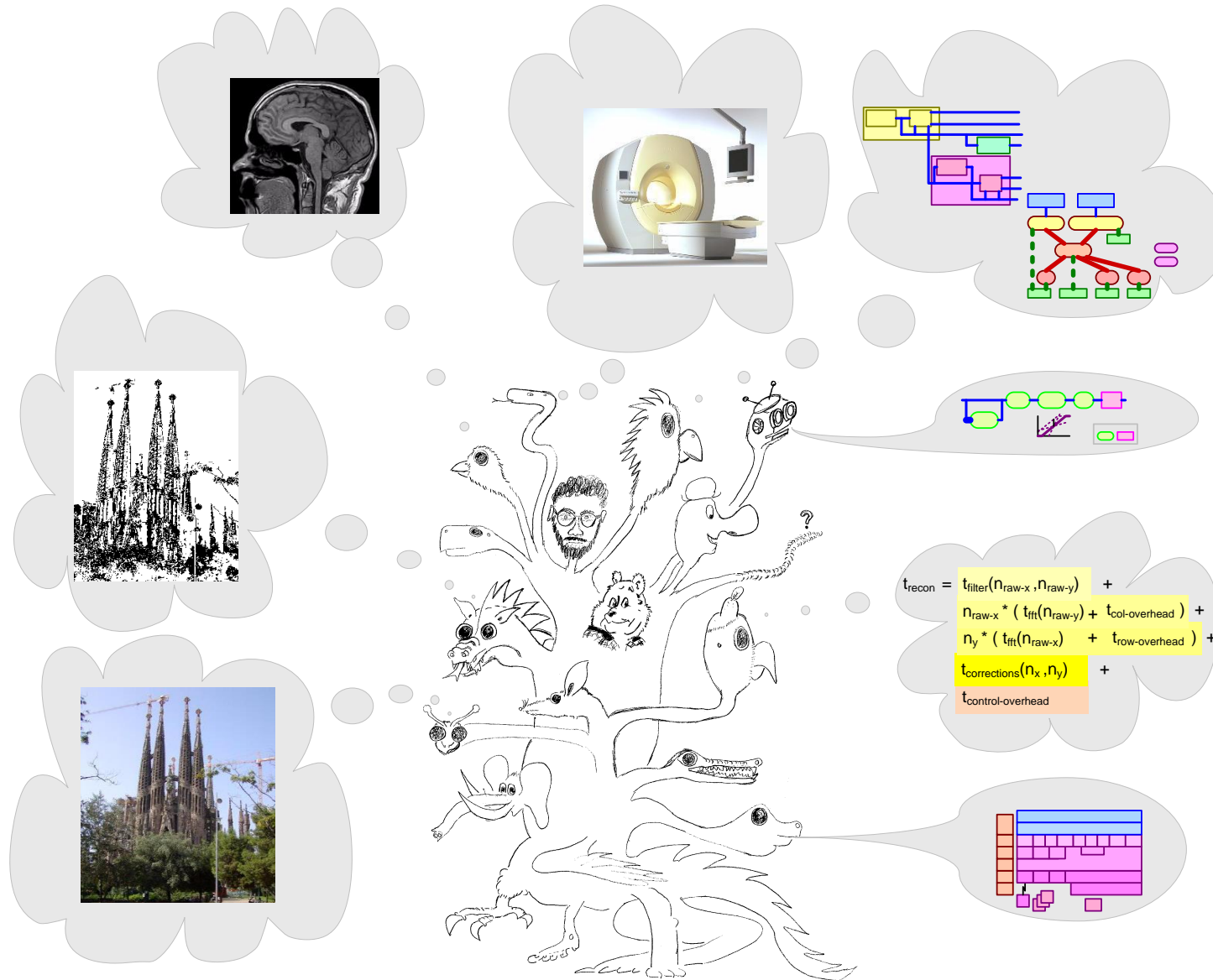


typical clinical image (intestines)

"Draden van redenering"



De Systemearchitect als twintigkoppig-monster



$$t_{\text{recon}} = t_{\text{filter}}(n_{\text{raw-x}}, n_{\text{raw-y}}) + n_{\text{raw-x}} * (t_{\text{fft}}(n_{\text{raw-y}}) + t_{\text{col-overhead}}) + n_y * (t_{\text{fft}}(n_{\text{raw-x}}) + t_{\text{row-overhead}}) + t_{\text{corrections}}(n_x, n_y) + t_{\text{control-overhead}}$$