

# MMBase as a Service

## Architecture 2.0 @ VPRO

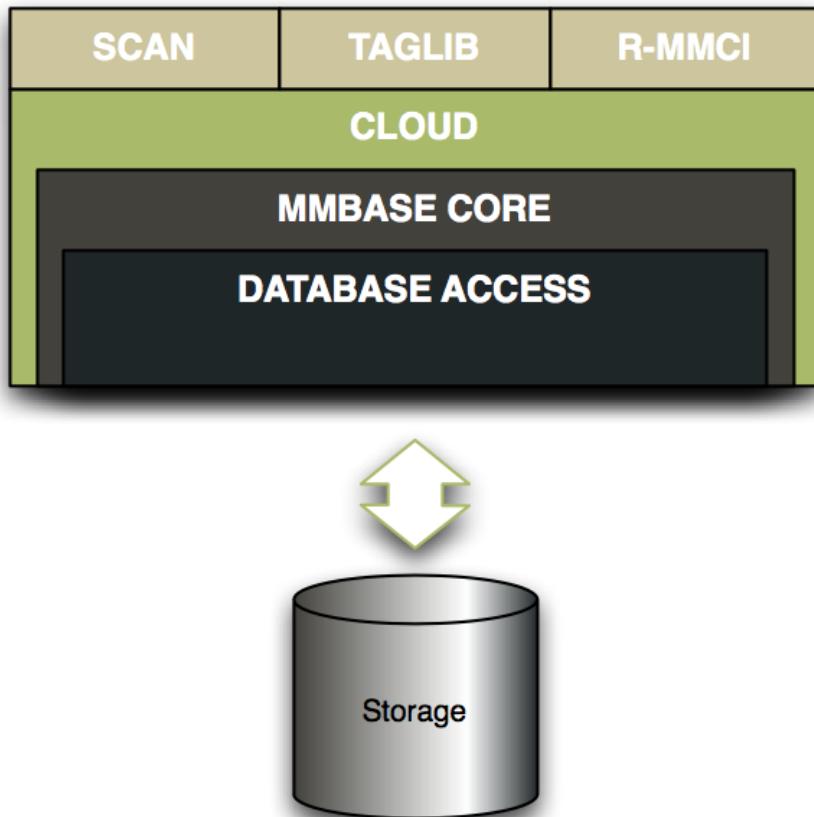
# Work in Progress

# whoami

MMBase as a Service

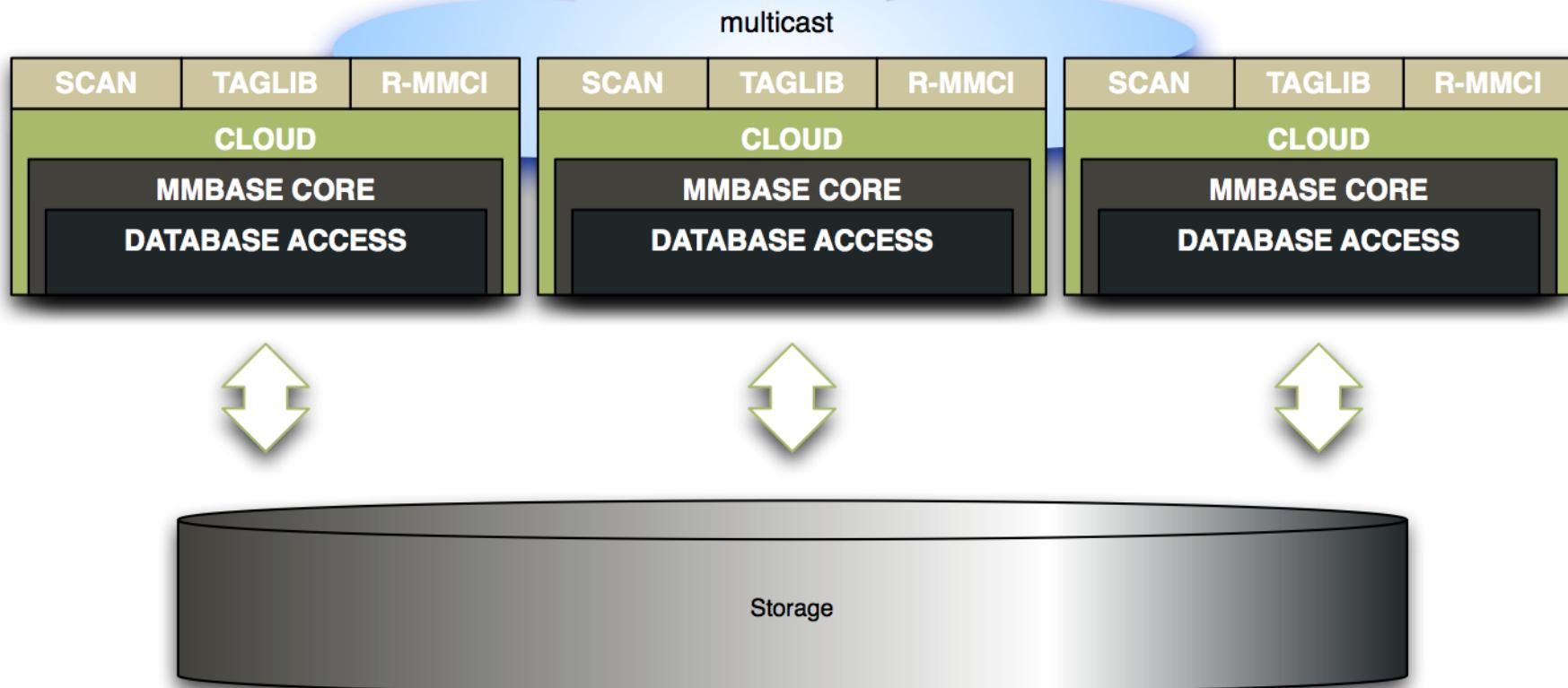
Architecture 2.0 @ VPRO

# Vroeger

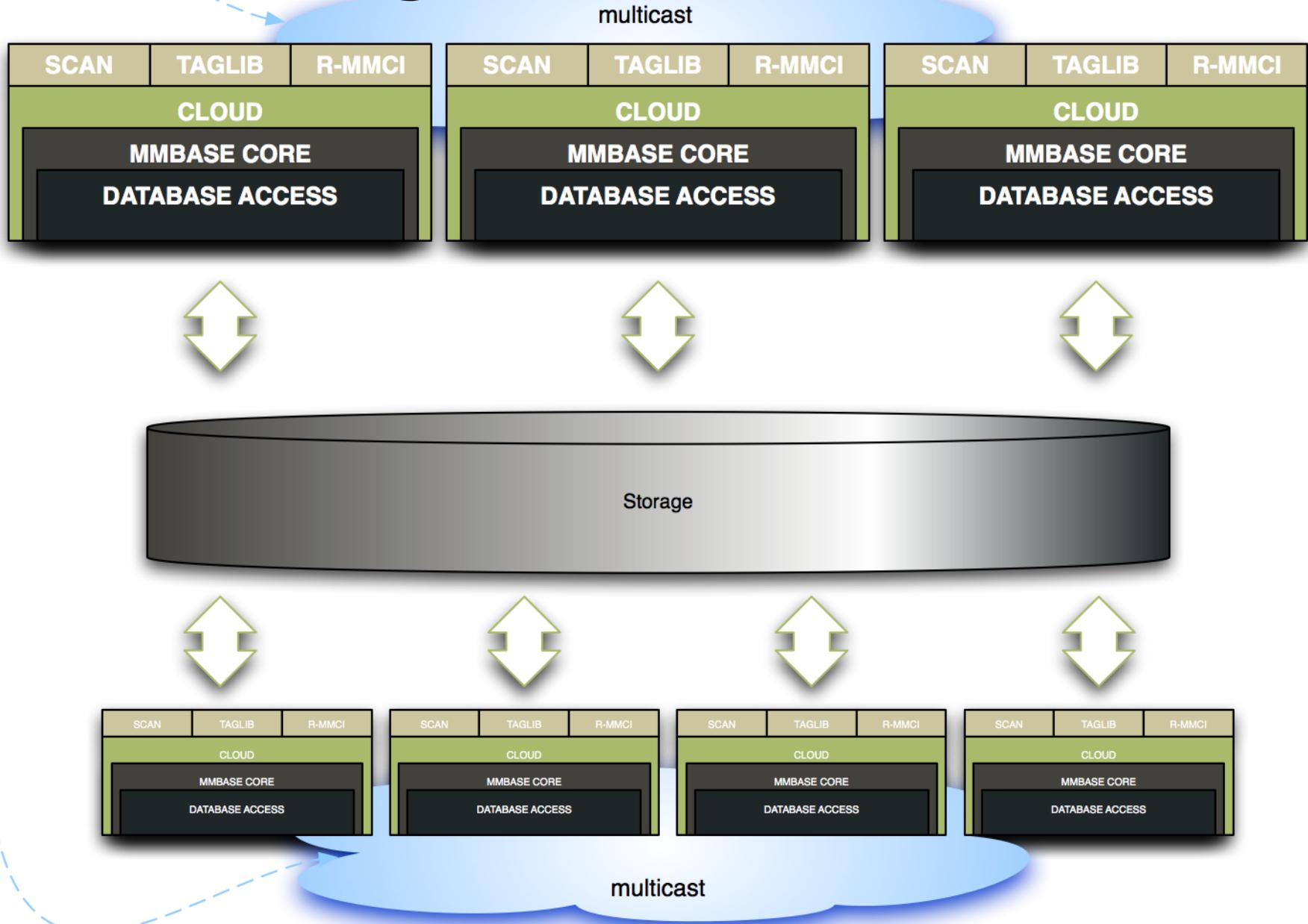


- Één applicatie
- MMBase was *het* development platform
- Mogelijkheden of beperkingen 'opgedrongen' door techniek

# Daarna: meerdere apps 1 db



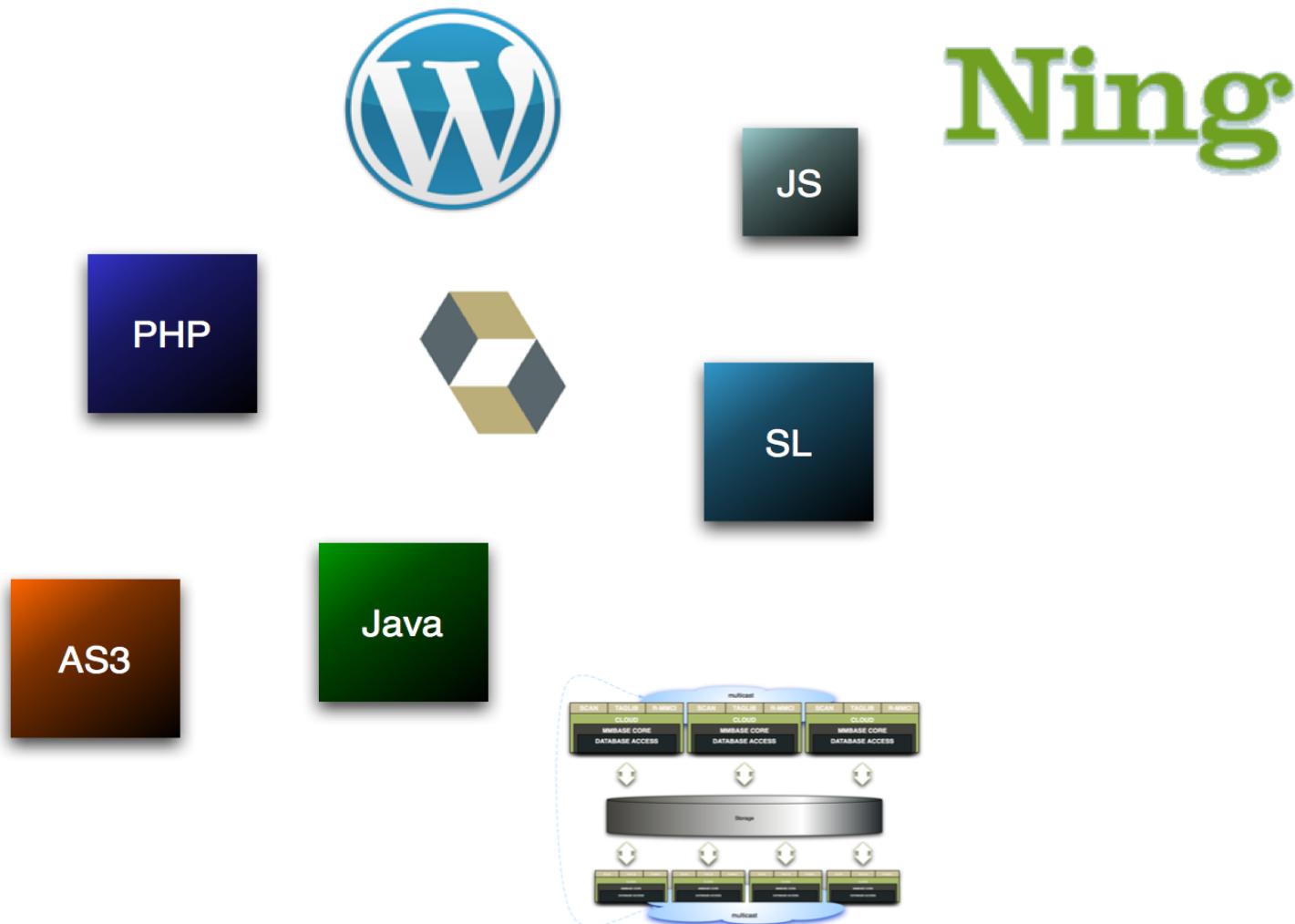
# Nog meer apps....



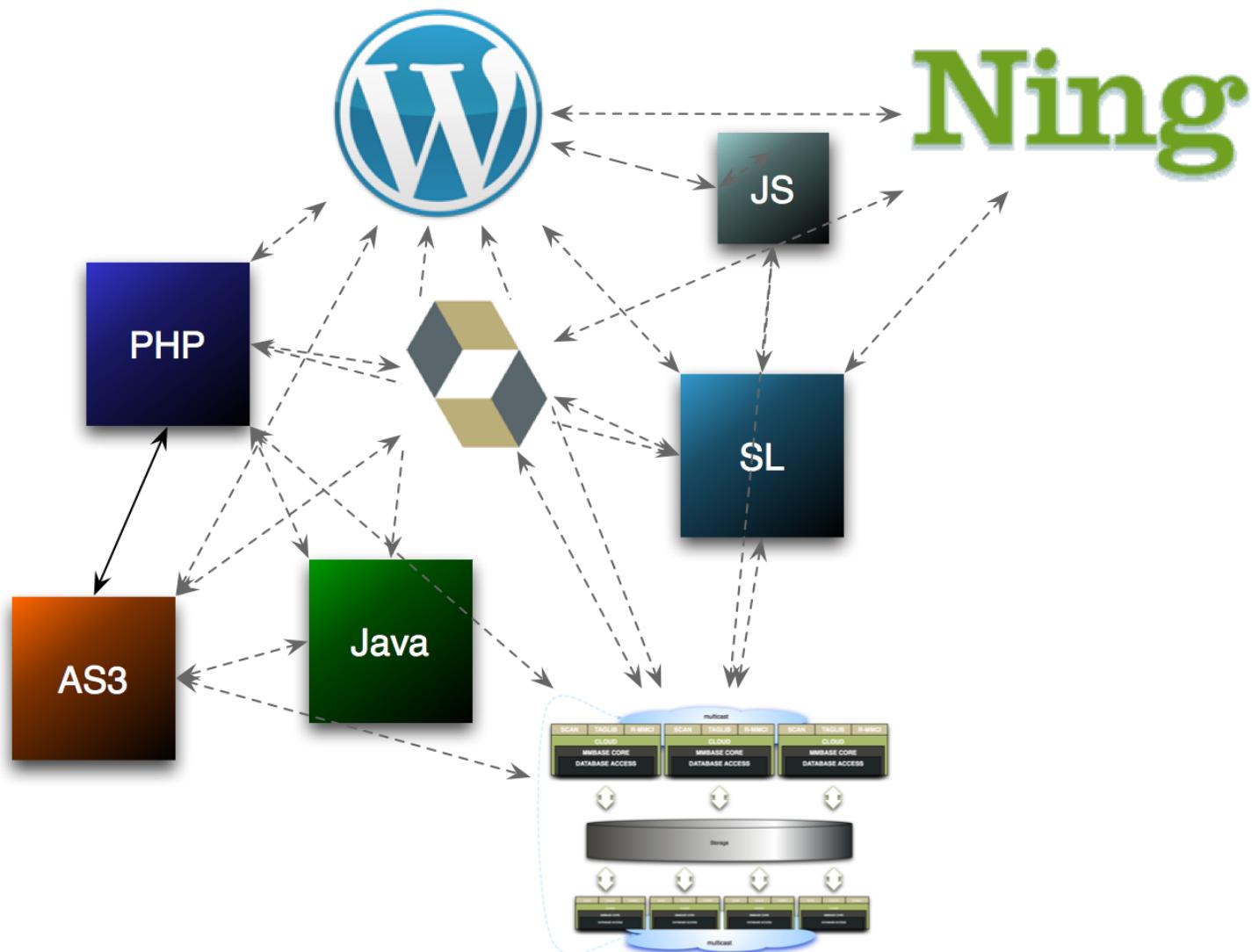


...de uitwerking

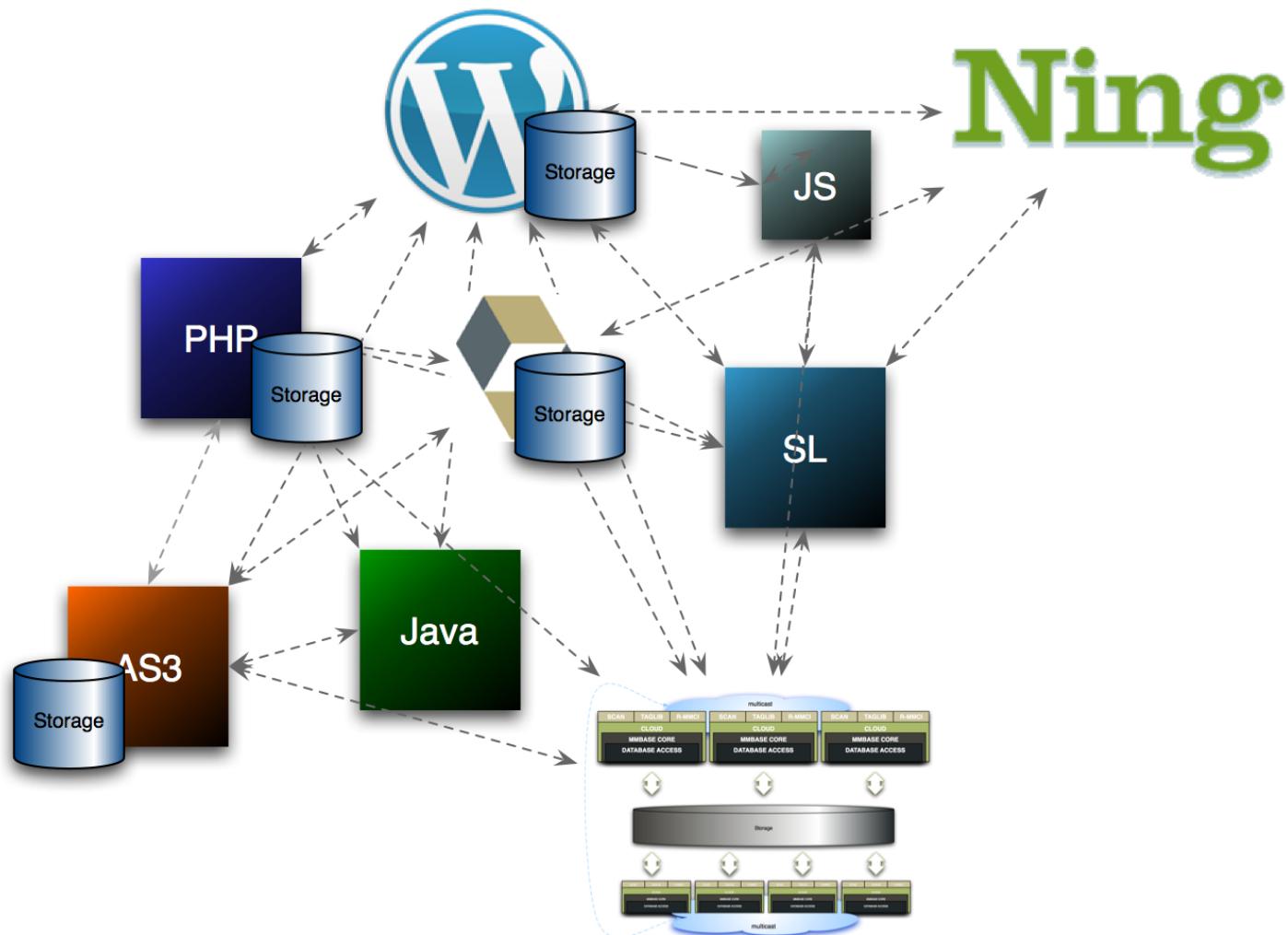
# 'ineens' zijn er andere platforms



# Die met elkaar willen praten



# En met databases...



# VPRO

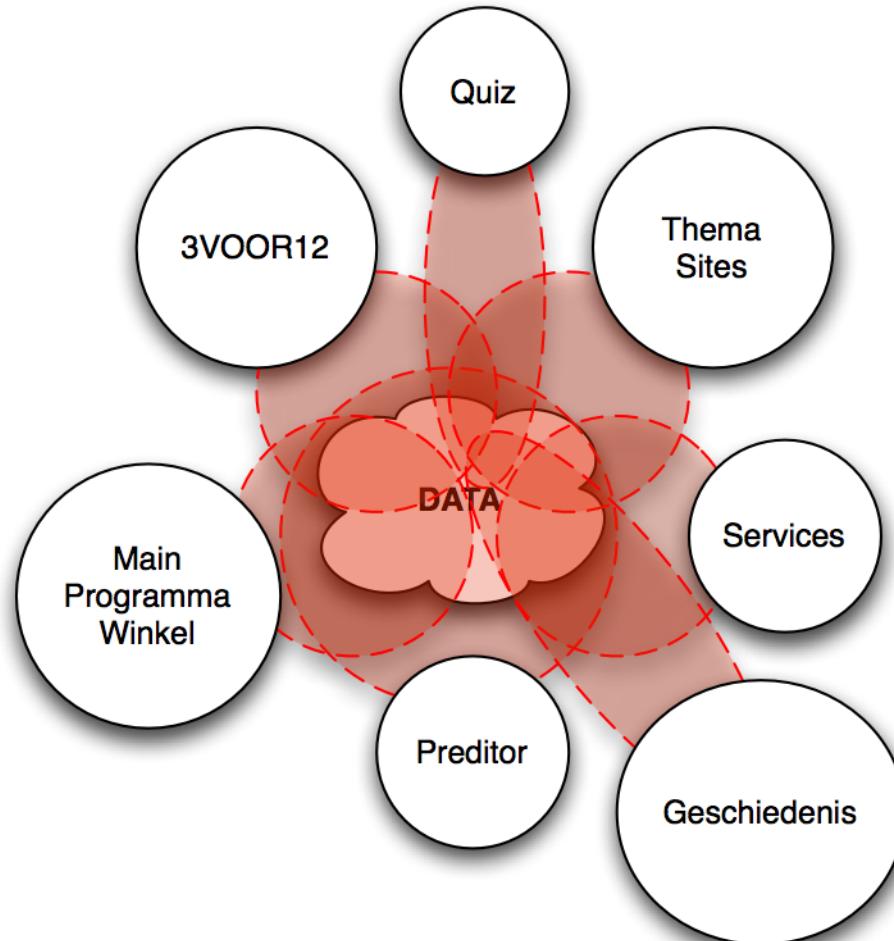
## *MMBase*

- Themasites
- Webwinkel
- Predictor
- Single Sign On

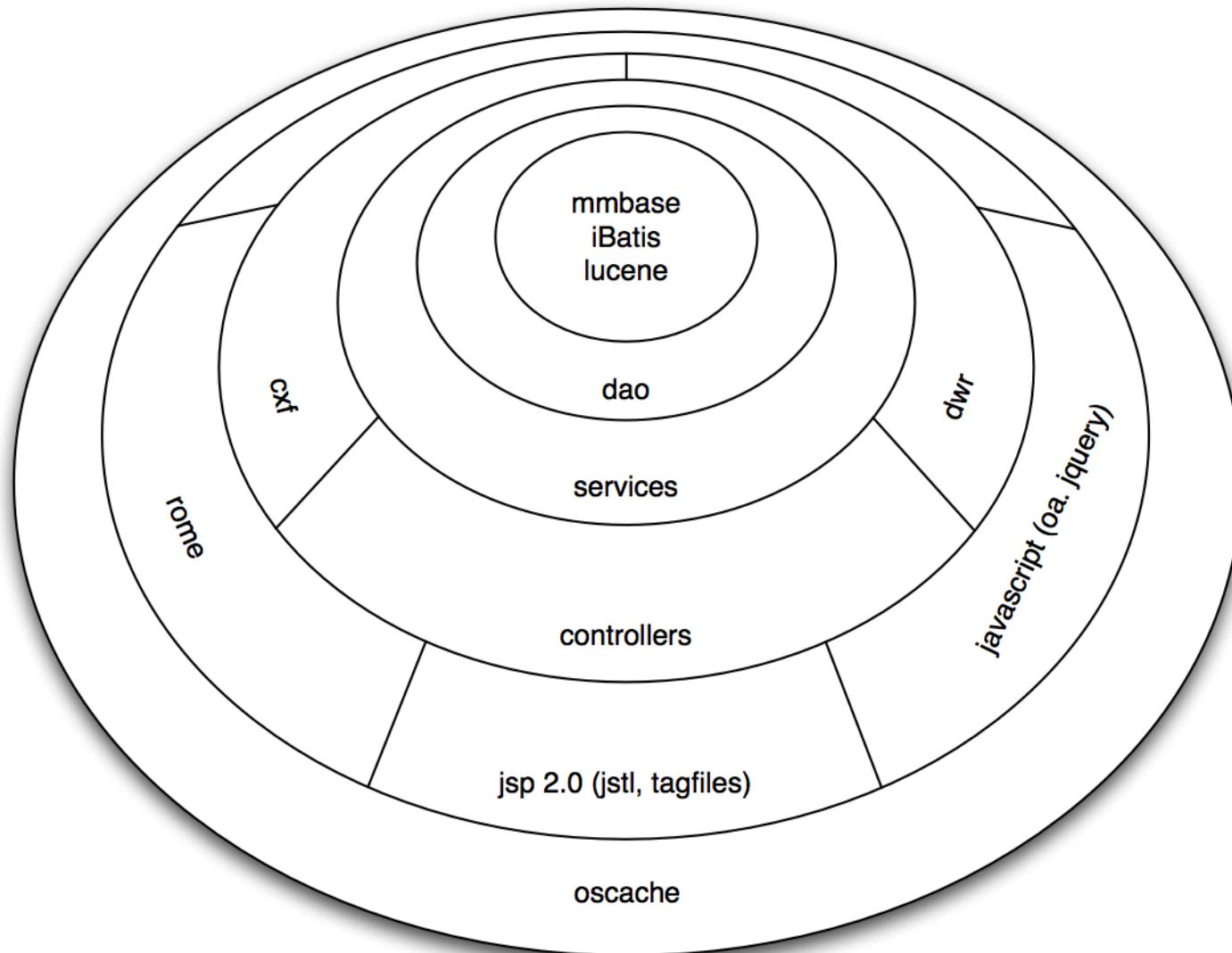
## *Anders*

- Cinema.nl
- Weblogs
- Communities

3voor12.vpro.nl



# 3 voor 12

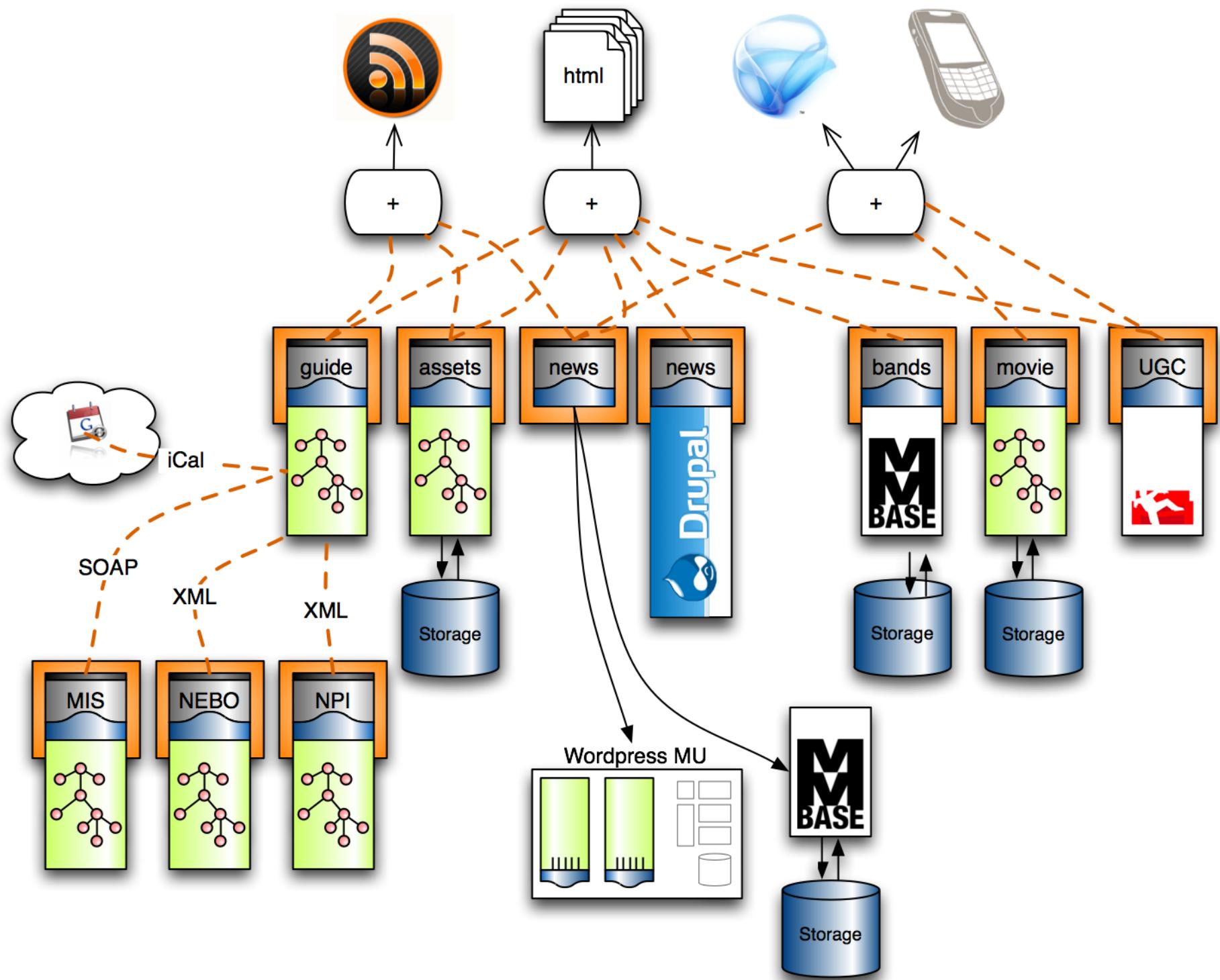


# Waarom die 'nieuwe' systemen?

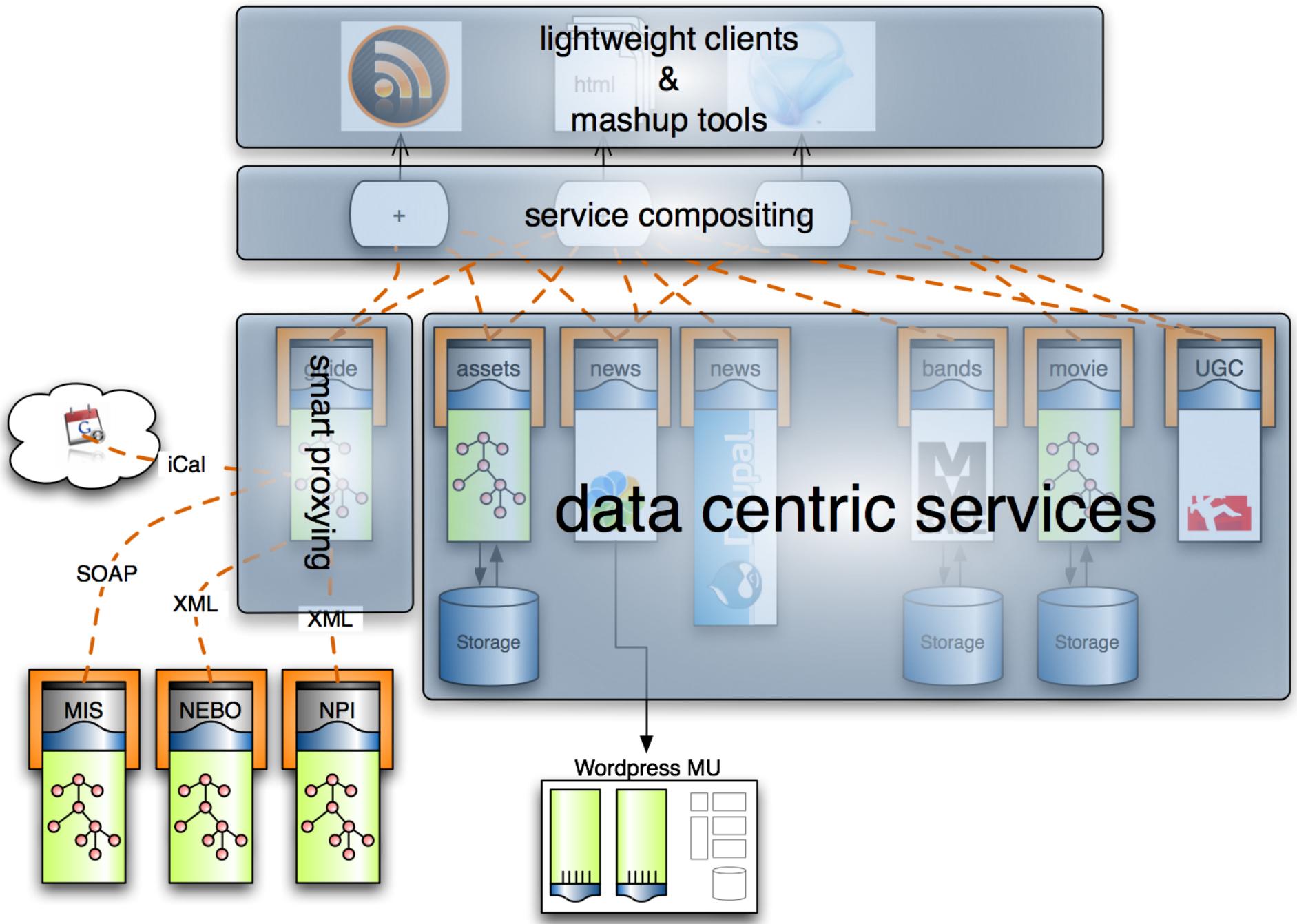
- Het gras bij de buren is groener
- 'Business' is niet geïnteresseerd in de techniek
- In sommige gevallen is een ander platform misschien een betere oplossing voor het probleem
- Goedkoper

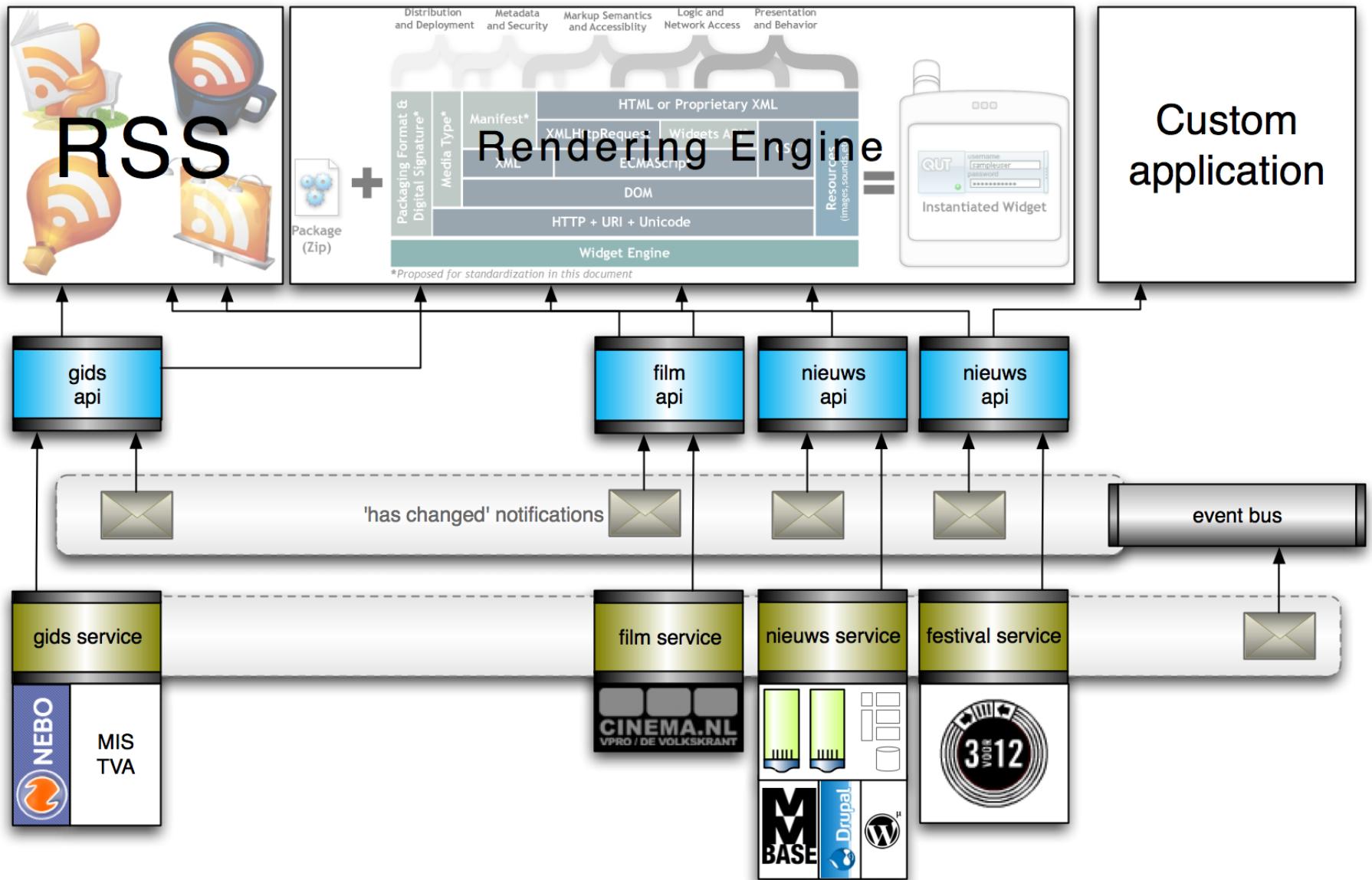
# Dus wat gaan we doen?

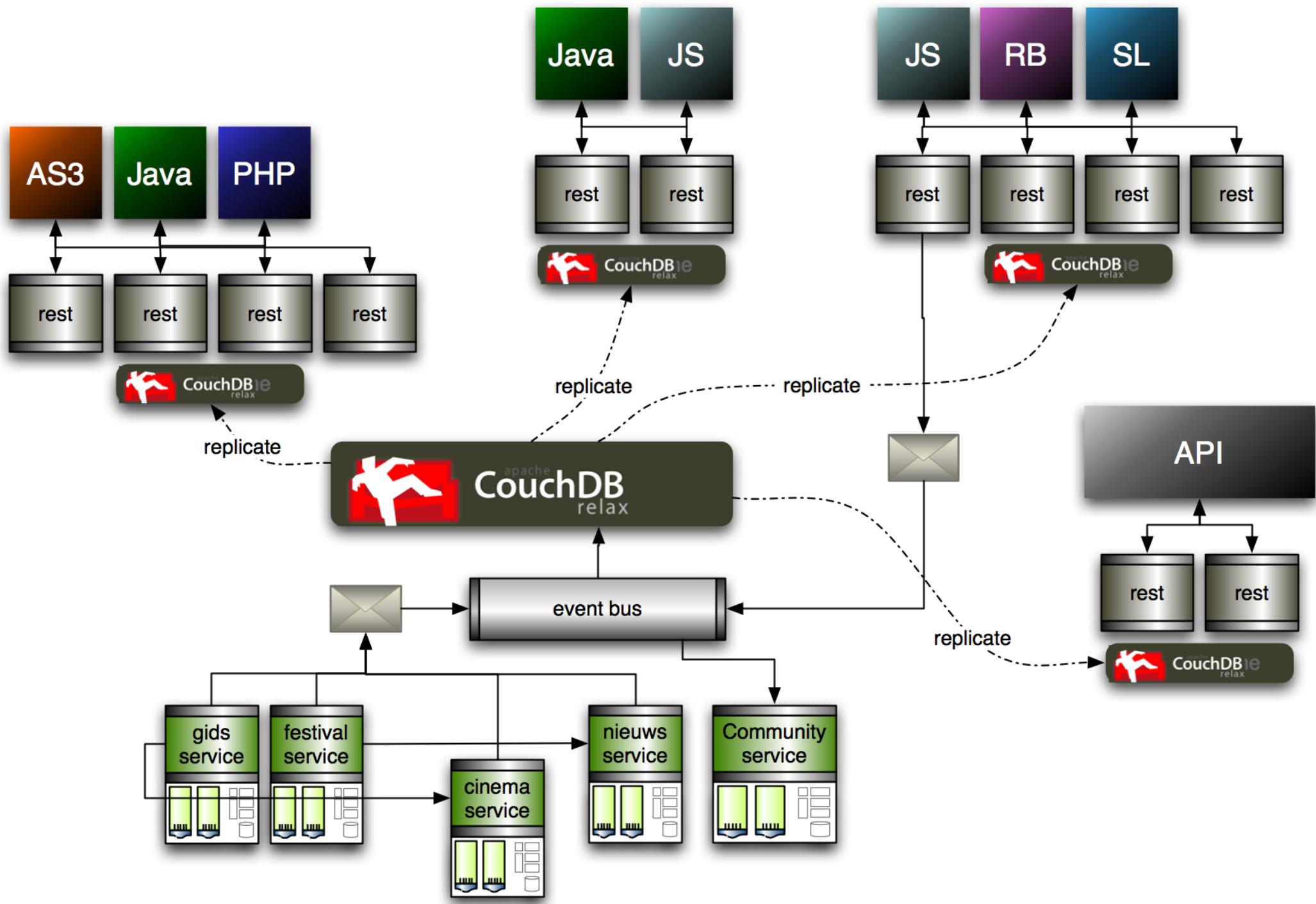
- De sterke punten benutten
- De zwakke punten uitbesteden
- Meespelen met de rest
- Iets bedenken om hier dingen bovenop te kunnen bouwen



v0.1

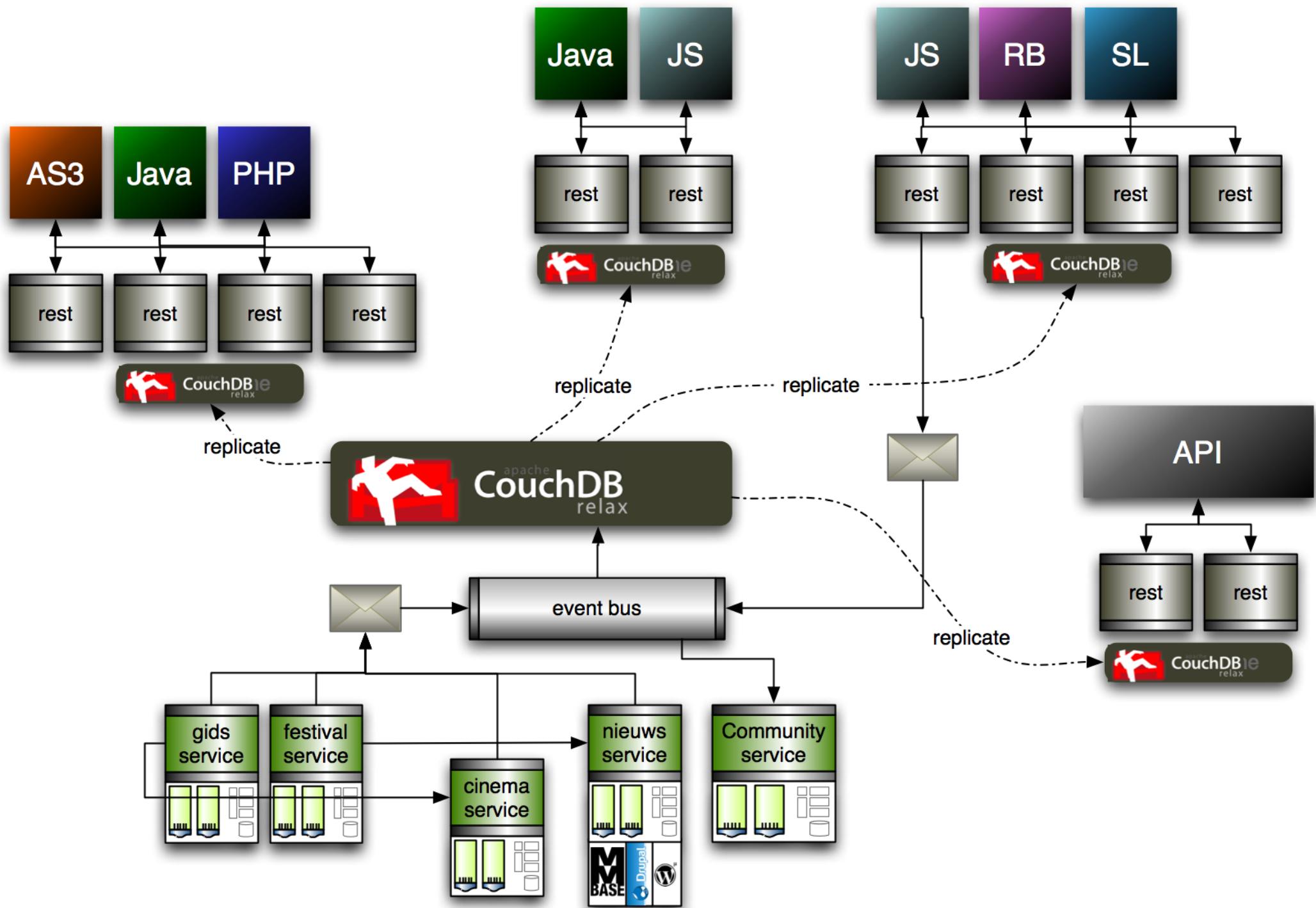






# Euhm... couchdb?

- JSON Document store
- Erlang
- REST-Full
- Views (aggregatie, filtering, projectie)  
geschreven in Javascript
- 'Cache Met Query Functionaliteit'



v0.8

# Frameworks

- Apache Camel
- Active MQ
- JSON lib
- Spring

# Essentiël

- Cannonisch datamodel
  - Wat is Nieuws?
  - Hoe bepaal je de Identiteit?
  - Platform onafhankelijk
- Platform onafhankelijk transport
- Toekomstbestendig?

# Terug naar MMBase

- Wij missen een manier om te beschrijven uit welke nodestructuren entiteiten bestaan
- Het 'node' object maakt het lastig andere frameworks te gebruiken (JAXB, JSON Lib, CXF, Camel etc.)
- Hoe (en waar) bepaal je welke mutatie aan een node/relatie in de cloud welke reactie moet triggeren

# Annotation Gebaseerde Binding

```
@Entity(builder = "news")
public class NewsItem {

    private Long number;
    private String title;
    private String subtitle;
    private String credits;

    @Field(nodeField = "intro")
    private String description;

    private String body;

    @Embedded(builder = "mmevents", queryDirection = QueryDirection.BOTH, field = "start", convertor =
    EpochDateConvertor.class)
    private Date created;

    @PosRel(orderDirection = Direction.DESC, queryDirection = QueryDirection.SOURCE)
    private List<Image> images;

    @Rel(orderDirection = Direction.DESC, orderField = "value", queryDirection = QueryDirection.SOURCE)
    private List<Tag> tags;

    public String getTitle() {
        return title;
    }
}
```

# Annotation Gebaseerde Binding

```
@Entity(builder = "news")           ← Relate to a builder
public class NewsItem {

    private Long number;
    private String title;
    private String subtitle;
    private String credits;

    @Field(nodeField = "intro")
    private String description;          ← Remap fields

    private String body;

    @Embedded(builder = "mmevents", queryDirection = QueryDirection.BOTH, field = "start", convertor =
    EpochDateConvertor.class)
    private Date created;               ← 'Flattened association'

    @PosRel(orderDirection = Direction.DESC, queryDirection = QueryDirection.SOURCE)
    private List<Image> images;         ← Specific associations

    @Rel(orderDirection = Direction.DESC, orderField = "value", queryDirection = QueryDirection.SOURCE)
    private List<Tag> tags;             ← Generic associations

    public String getTitle() {
        return title;
    }
}
```

?  
■