

Arisca Droog

Arisca.droog@Schiphol.nl

02.11.18

Process flow of maintaining asset information

Welcome to Amsterdam Airport

Schiphol

Introduction

Arisca Droog



- Technical information coordinator in the asset management department of Schiphol.
- Primarily focusing on coordinating the information and data to and from multiple, simultaneous projects
- Act as a “link” between other departments and employees to ensure everyone is understanding their role.
- Optimizing this process through communication with stakeholders about new (or old) projects, or by working with our contractors about projects that are already up and running.

*MSc. Geology, Bowling Green State University, USA
Certificate in Geospatial Technology, Bowling Green State University
B.A. Geography, Bowling Green State University*

Complexity of Schiphol

Schiphol Airport:

- 2.787 hectares terrain
- 347 assettypes total
- 2.500 Schiphol employees
- 500 companies/65.000 people
- 300-400 mil. Capex (invested in projects 2018)
 - 300 projects in 2018

Terminal:

- 800.000m²
- Ranging from 3 – 12 floors
- 9 disciplines/200+ assettypes

Open 24/7,
365 days a year

Baggage:

- 4 floors dedicated to baggage
- 144m² baggage area and systems
 - Transport system is 58km
- Systems operate on 397 servers
 - powered by 10,439 engines
- 2,000 employees

Airside/Landside:

- 5 disciplines/100+ assettypes
- 6 runways
 - 19 km runway total

So how do we work?

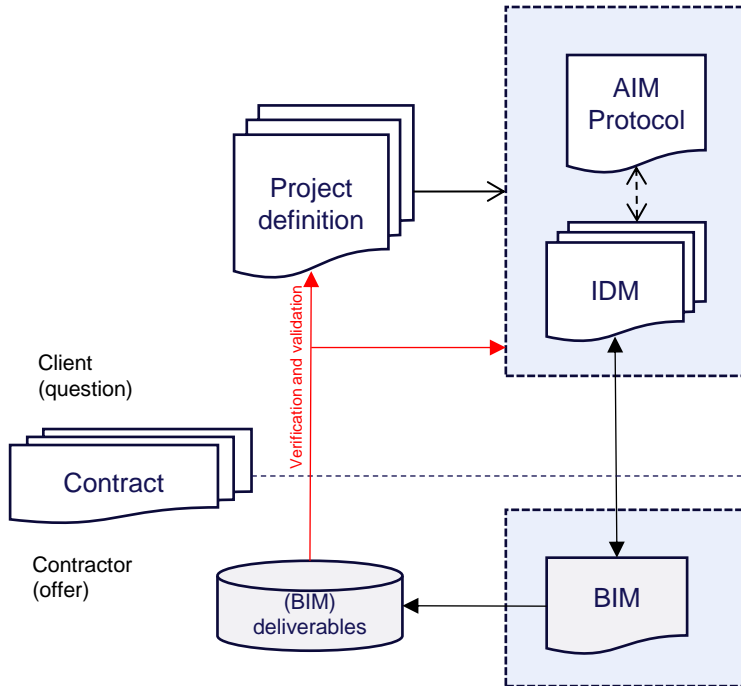
- Many projects
- Exchanging information
- Diverse and challenging

Uniform data structure...IDM



Information Delivery Manual (IDM)

Protocol and Information requirements



- The contract defines the **conditions** and **requirements** concerning the project, information and data
- The AIM protocol defines **how** and **when** each project will deliver their information conform the IDM requirements
- The IDM defines the deliverables per **project phase**

Kies hierover met de filters de voor het project/werk relevante items (om meerdere items te kiezen, Ctrl-toets gedrukt houden). Een toelichting op ondervermelde informatieproducten is te vinden in de ILS-Bijlage 'Beschrijving informatieproducten'.

Discipline	Aandachtgebied	Projectfase (De...)	Azsettype	Beschikbaarstelling
(_)ALGEMEEN	Airside	()	61.59 Loosgranning - kabel(groepen)	Roadplaatbaar in projectdossier
(Brand)Beveiliging	Airside/Landido	DD1Initiatiefase & Project...	61.6 Loosgranning - voorloeg	Toelveren aan ASM
(Werktuig-)Bouwkun...	Airside/Landido/NUTS	DD2a Voorlopig ontwerp	61.7 Blikzemaflleiding	(loeg)
Bouwkundig	Airside/Landido/Terminalscompl...	DD2b Definitief ontwerp	61.81400Hz Uitz	
Civil	Airside/NUTS	DD3 Technisch ontwerp	61.91VDGS AGNIS PAPA	
Elektrotechnisch	Airside/NUTS/Terminalscomplex	DD4 Contractverwinq	61.92VDGS T2-23	
Facilities	Airside/Terminalscomplex	DD5 Uitvoering	61.93VDGS T2-24	
Object-/procesbeheer	NUTS	DD6 Overdracht	62.61PCA Aanzhulpunten	
Terrein	NUTS/Terminalscomplex		63.1Verlichting, Standard, Onbewaakt	

Tools

- Create a document register
- File names will be changed to Schiphol requirements

Project phases and "datadrops"

- Specifies when the information will be delivered

IDM information products

- Specifies the products that are required to deliver per project phase

Summary of assettypes

- The assettypes that will require deliverables conform Schiphol standards

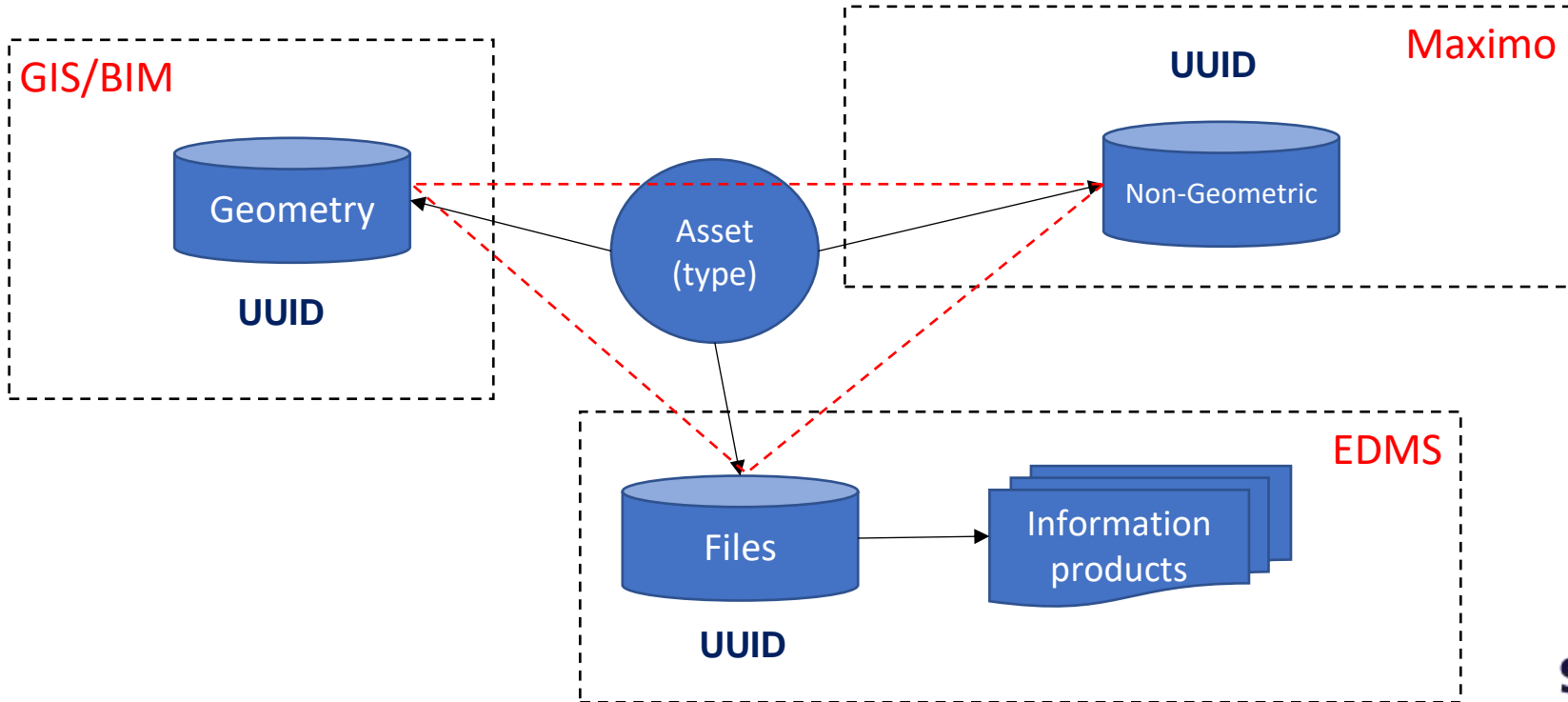
Azsettype

(_)ALGEMEEN
11.1Bodemvoorzieningen - Grand
13. Waaron op grandloeg
16. Funderingconstructie
17.2 Palfunderingen (Gheid)
21.11Buitensand (niet constructief) - Maziuf
21.12Buitensand (niet constructief) - Spawuand

Discipline	Aandachtgebied	Projectfase	Azsettype	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Discipline	Aandachtgebied	Projectfase	Azsettype	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

IDM Requirements

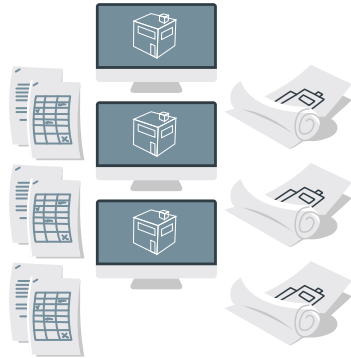
Asset Information Model



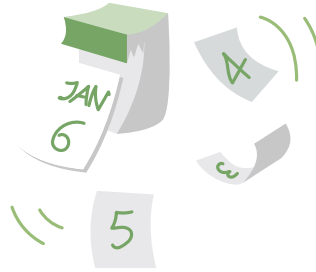
Challenges



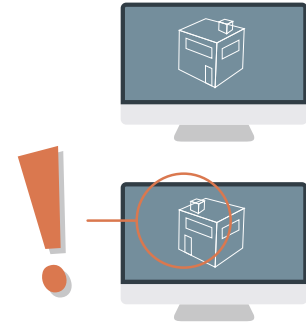
Complex



Redundant



Time-consuming



Error sensitive

Vision...

Schiphol will continue to grow and the amount of information and data will increase



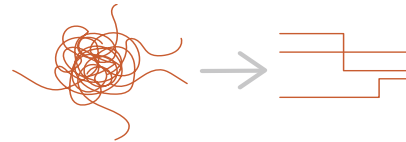
shared data



more knowledge



improved quality



improved efficiency



cost reducing