

Arnhem Design Workshop

RE SUITE & DECISION SUPPORT TOOL



DMO- André van Delft, Sander Bruinenberg

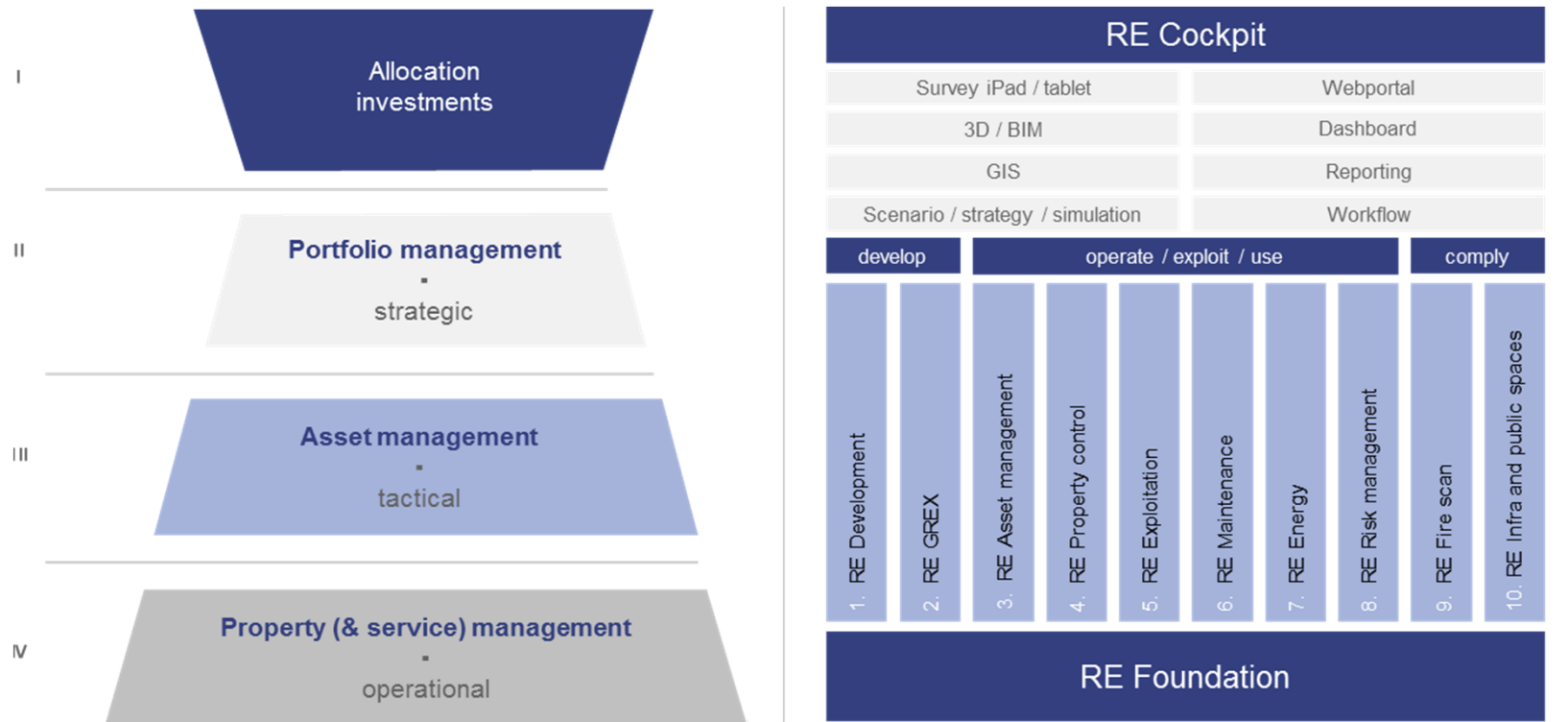


Table of Content

1. Introduction RE Suite
2. Background of Decision Support Tool
3. Entire Streamer workflow and the Decision Support Tool
4. Description of Decision Support Tool
5. Do it yourself
6. Collecting the results
7. The integration with the RE Suite

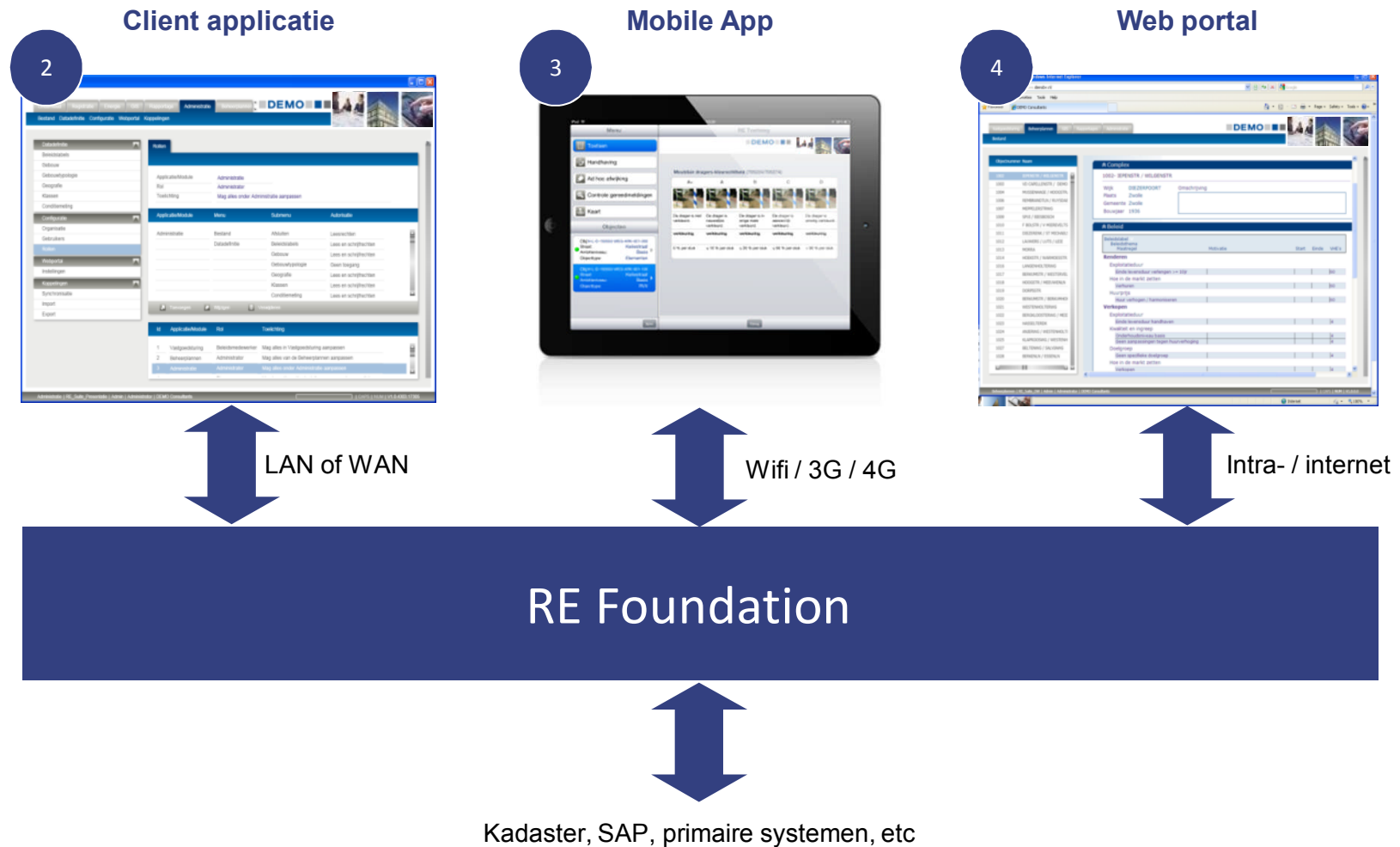


1. RE Suite – Real Estate Suite





1. IT architectuur RE Suite



1. Maintenance



RE Suite - Onderhoudsplanung

Maintenance | Vastgoedsturing | Energie | Energie2 | GIS | Rapportage | Beheerplannen | Administratie

Bestand Bewerken Voorraad Inventarisaties Inspecties Analyses Configuratie Help

Voorraad
Objecten
Inventarisaties
Inventarisaties muteren
Inspecties
Inspecties muteren
Analyses
Onderhoudsplanung genereren
Afbouwsenario
Activiteiten verschuiven

Opties Filter

Startjaar: 2012
Toon: Kosten
Onderhoudsniveau: Zonder voorwaarden
Activiteiten: Volgens opgaf

Object	HC	ID	Activiteit	2012	2013	2014	2015	2016	2017	2018	
DM5405	21.80	99.09	Stelpost						7.500		
DM5405	21.99	82.23	Vervolg systeem 1 laags (metaalcoating)						60		
DM5405	23.10	01.00	Portiekschilderwerk				30.000				
DM5405	23.10	01.00	Portiekschilderwerk			26.525					
DM5405	23.10	01.00	Portiekschilderwerk					1.456			
DM5405	23.30	99.09	Stelpost					3.500			
DM5405	23.40	99.09	Stelpost			10.000					
DM5405	23.40	99.09	Stelpost			3.000					
DM5405	23.40	99.09	Stelpost					5.000			
DM5405	24.21	00.03	Plaatselijk houtroosterstel							1.02	
DM5405	24.92	82.19	Cleaning / inwassen					15.431			
DM5405	24.94	84.22	Vervolgstelsysteem 1 laags								
DM5405	24.94	84.22	Vervolgstelsysteem 1 laags								
Totaal				102469856	7310022	6874284	6052626	5399710	5415895	4811560	6025502

RE Maintenance

Inspectieregistratie

Gebruik	I	O	C	B	B	V	K	V	Activiteit	Hvh	Cor	Cor	Start	Start	End	End	C	Fonds	Werk	Bew	Plaats	
	N	M	V	E	E	I	E	L	S		fact	cycl	jaar	jaar	jaar	jaar	N	soort	code	code		
	T	V	O	L	B	M	I	O					org	org	org	org	O					
12 / Ge	1	2	1										100	100	2013	2013	2009	2009	1			
Toelichting	Dit is een lange toelichting. Dit is een lange toelichting. Dit is een lange toelichting. Dit is een lange toelichting. Dit is een lange toelichting.																					
	10.00								Vervangen paalfundering						99	305.39 m2						0
	10.01								Vervangen fundering op staal						99	165.13 m2						
	10.02								legelieren legen oplekkelend vocht						99	119.80 m2						
	99.09								Stelpost						99	1000.00 post						

12 / Gebrekkige basiskwaliteit 1 2 1 0 100 100 2013 2009 1 0

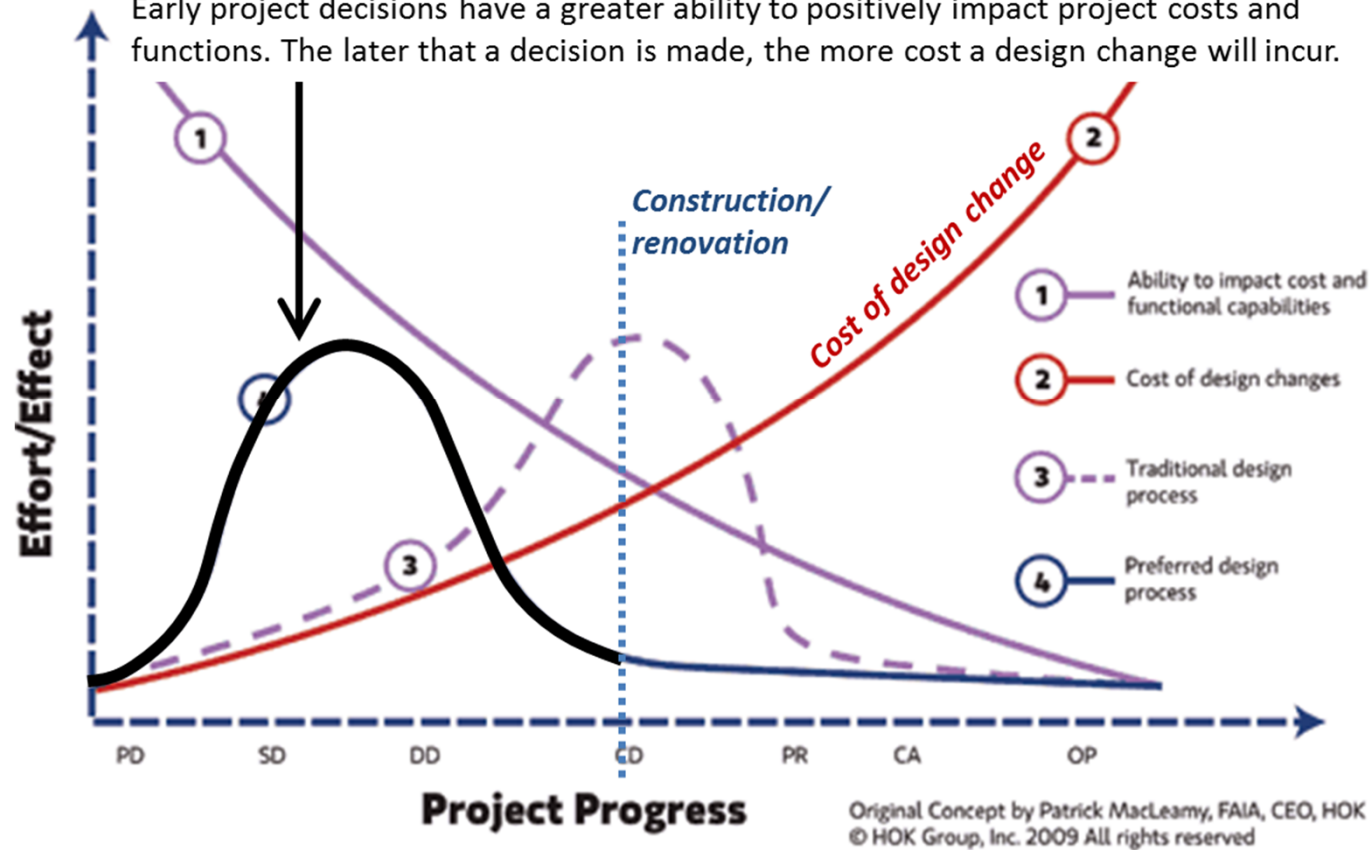
12 / Gebrekkige basiskwaliteit 1 2 1 Vervangen fundering op staal 100 100 100 2017 2034 1 15518



2. Background

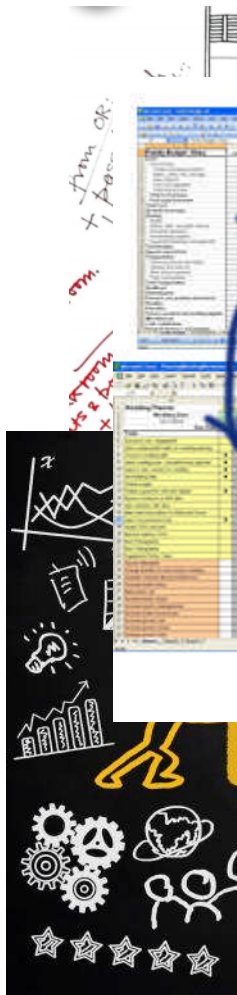
STREAMER focuses at the early design process of new and retrofitting projects:

Early project decisions have a greater ability to positively impact project costs and functions. The later that a decision is made, the more cost a design change will incur.



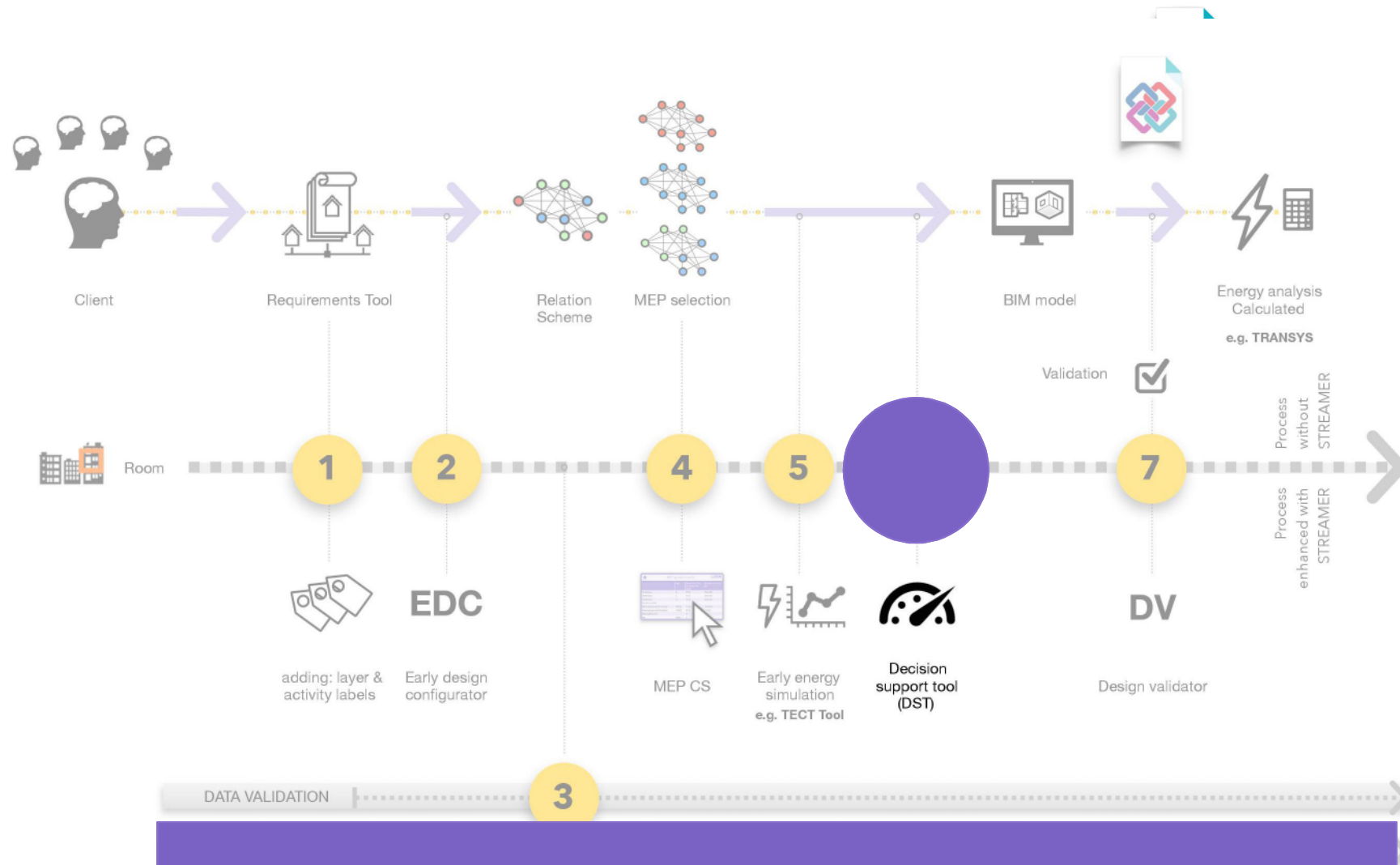


2. Current practice before STREAMER





3. DST & STREAMER WORKFLOW



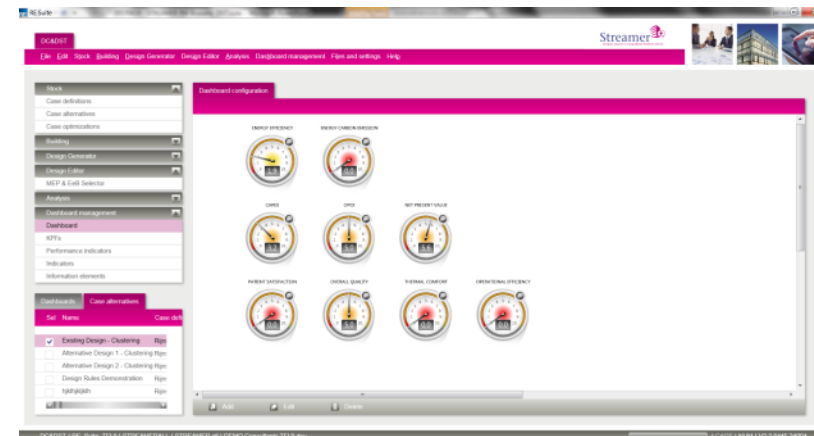
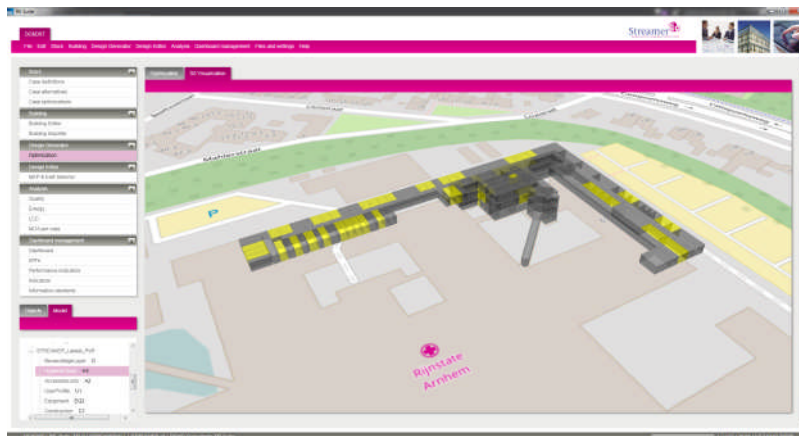


3. Description of Decision Support Tool

a decision-support tool that also addresses LCC considerations

Included research scope:

- **KPIs for energy-efficient hospitals, focused on the building level**
- **BIM interoperability solution for existing energy simulation tools**
- **User-friendly dashboard for KPI analysis and decision-support**





3. The process and information exchange

- 01 POR
- 02 Design Rules
- 03 Filter Sets
- 04 EDC
- 05 MEP and EeB Data
- 06 MEP and EeB Selector
- 07 LCC
- 08 Quality
- 09 Energy
- 10 KPI Dashboard
- 11 Validation
- 12 Detailed Design



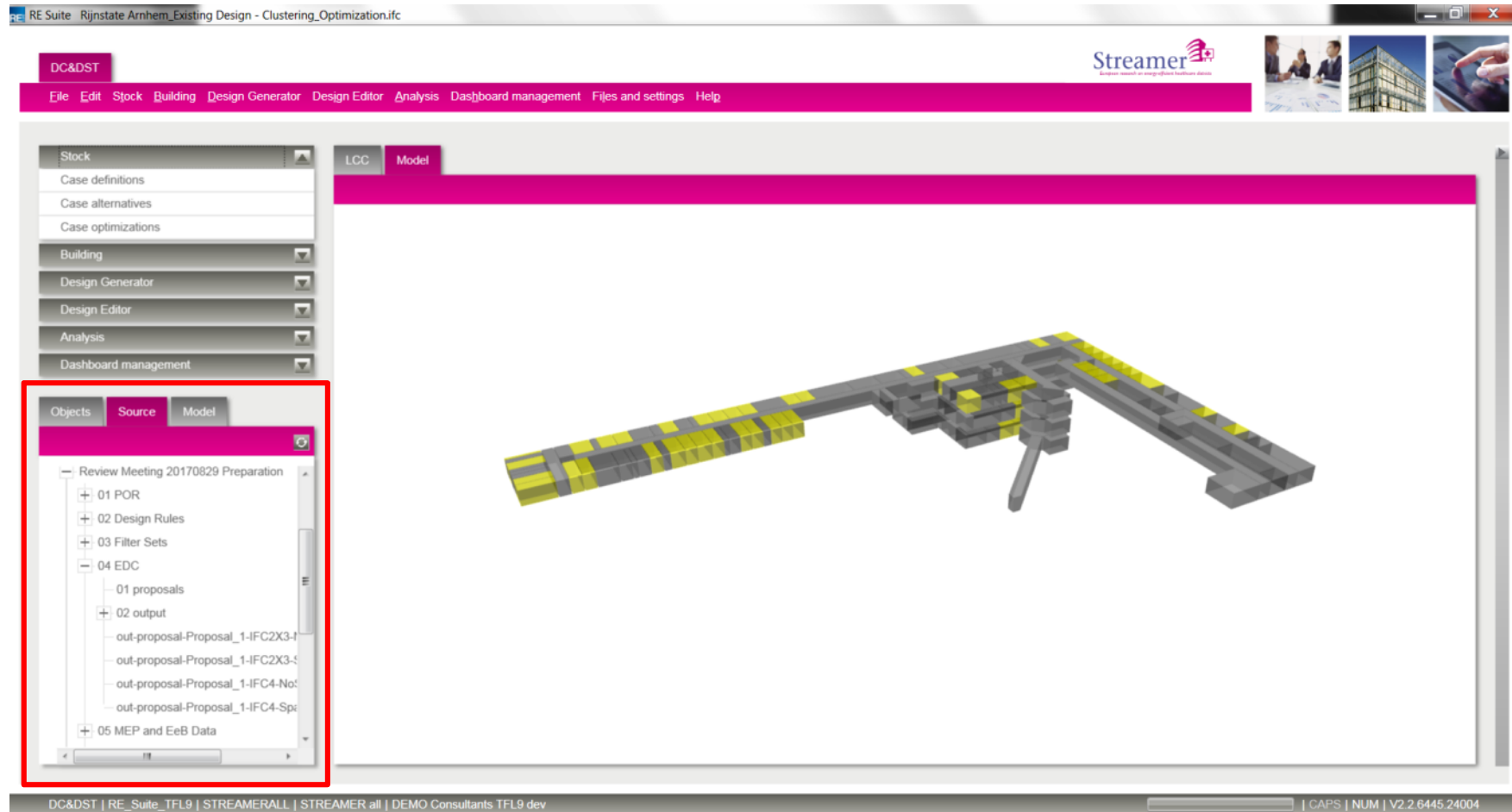
3. Workflow - CMIS on SharePoint / PLM

The screenshot shows a SharePoint site for 'STREAMER CMIS Collaboration Platform'. The page title is 'STREAMER CMIS Collaboration Platform' and the main heading is 'Collaboration platform for Streamer Tools.'. Below the heading is a large image of a hospital hallway with people in white scrubs. A context menu is open over a document titled 'out-proposal-Proposal_1-IF...', showing options like 'View Properties', 'Edit Properties', 'Check Out', 'Unpublish this version', 'Version History', 'Compliance Details', 'Workflows', 'Download a Copy', 'Shared With', and 'Delete'.

- CMIS site: <https://cmis.demobv.nl>



3. Workflow - via CMIS in RE Suite



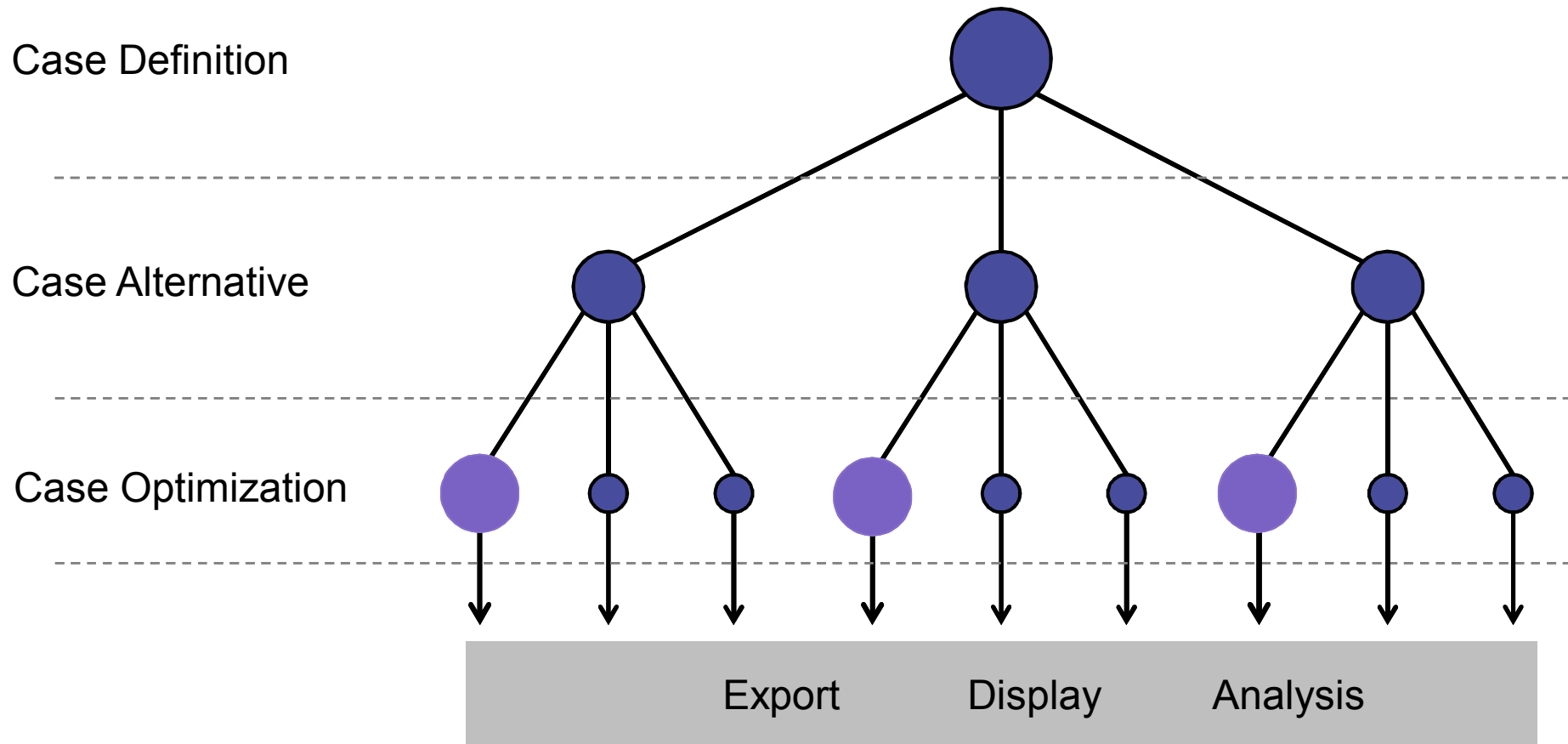


4. Functionalities of RE DST Streamer

- A. Case definition
- B. Case alternative definition
- C. Viewing and analysis of generated designs (IFC)
- D. Indicator calculation
- E. Import of energy calculation
- F. LCC analysis
- G. KPI importing and calculation (Energy, Financial, Quality)
- H. Constructing dashboards with KPI's
- I. Multi criteria analysis

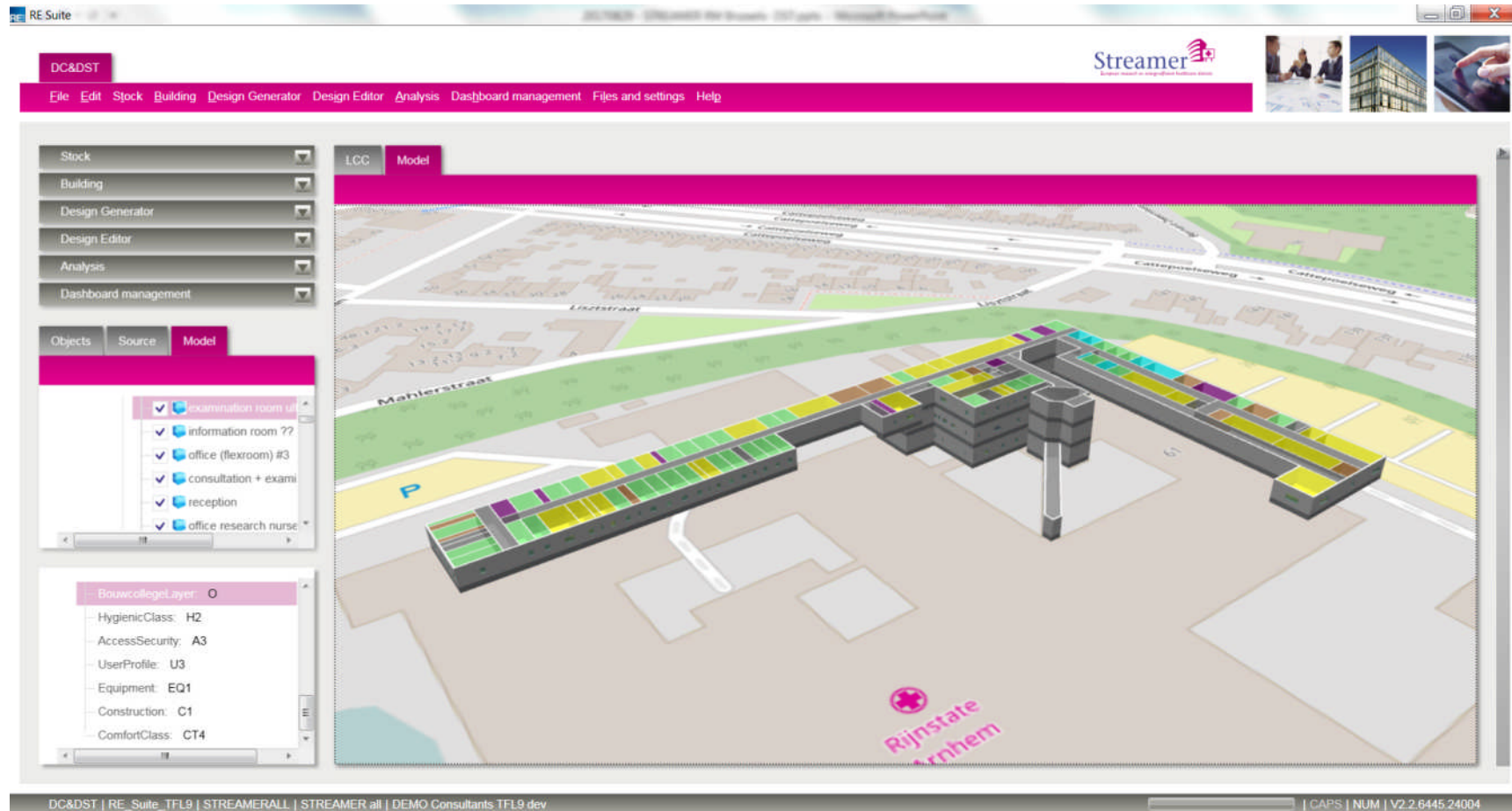


4. A. B. Case and case alternatives





4. C. Viewing generated designs





4. D. Indicator calculation

KPIs can consist of multiple performance indicators to define and calculate the KPI. In this way PIs can be regarded as ‘sub-KPIs’.

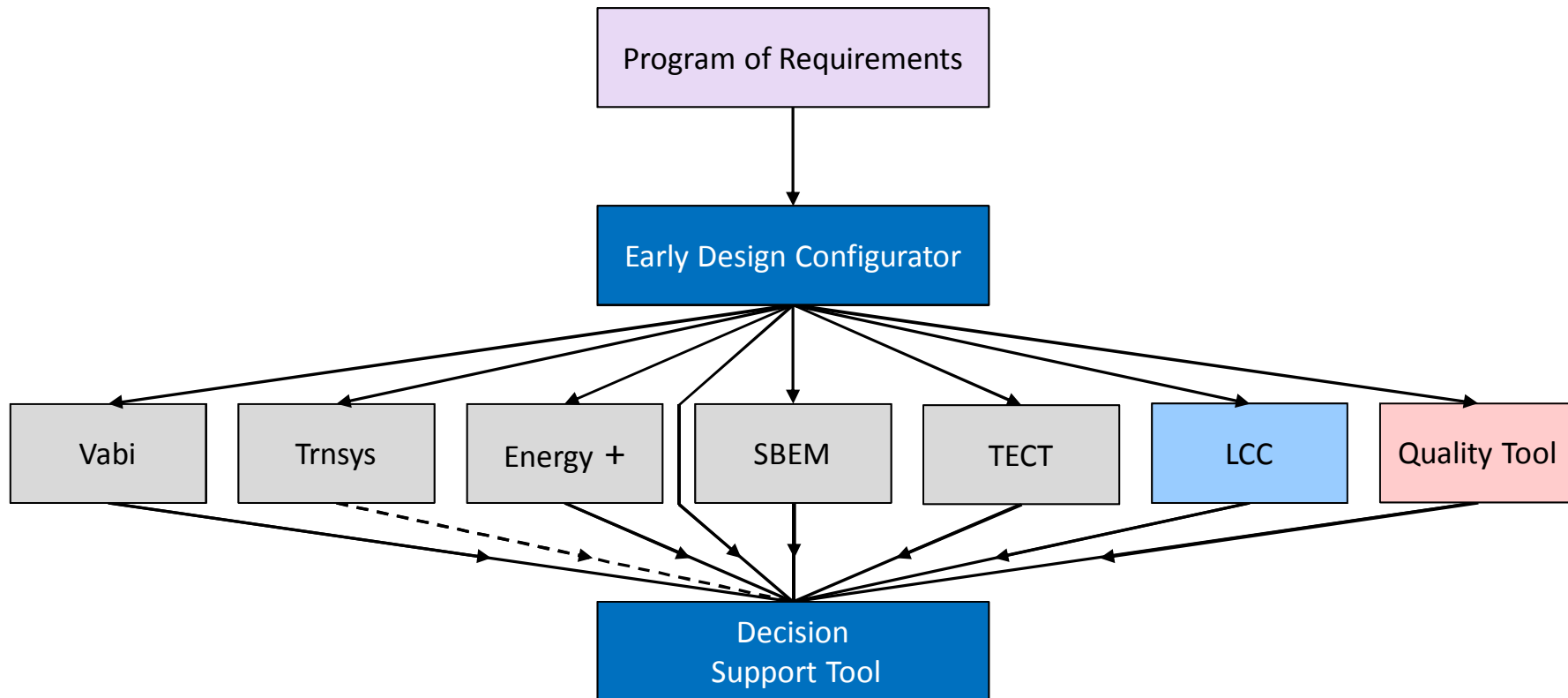
The screenshot shows the 'Indicators' configuration screen in the Streamer software. The interface is divided into several sections:

- Menu (Left):** Includes 'Stock', 'Building', 'Design Generator', 'Design Editor', 'Analysis', 'Quality', 'Energy', 'LCC', 'MCA per case', 'Dashboard management', 'Dashboard', 'KPIs', 'Performance indicators', 'Indicators', and 'Information elements'.
- Header:** 'DC&DST' and 'Streamer' logo with navigation icons.
- Navigation:** 'File Edit Stock Building Design Generator Design Editor Analysis Dashboard management Files and settings Help'.
- Indicator Configuration (Main Area):**
 - Code:** SI_F13
 - Description:** SI_Patient_satisfaction
 - Value 1:** [SIE_Patient_satisfaction]
 - Value 2:** (empty)
 - Ordinal value:** Value 1
 - Value for 1:** 1,00
 - Value for 10:** 10,00
- Buttons:** Add, Edit, Delete.
- Information elements (Bottom):** A list of elements to be selected for the indicator:
 - SIE_Capex
 - SIE_Carbon_emission_efficiency
 - SIE_Energy_Efficiency
 - SIE_Life_cycle_costs
 - SIE_Operational_efficiency
 - SIE_Opex
 - SIE_Overall_quality
 - SIE_Patient_satisfaction
 - SIE_Thermal_comfort

At the bottom of the window, the status bar reads: 'DC&DST | RE_Suite_TFL9 | STREAMERALL | STREAMER all | DEMO Consultants TFL9 dev' and 'CAPS | NUM | V2.2.6445.24004'.



4. E. Import of energy calculation



4. F. Calculation of LCC



The screenshot displays the Streamer software interface for LCC calculation. The top window shows a 3D model of a building. The bottom window shows a detailed table of LCC data with the following columns: Post, Description, Amount, Base cost, Capex %, Opex factor, Investment cost, Capex, Opex, 1st time, End year, Finq, Index %, NPV, and Tot costs.

Post	Description	Amount	Base cost	Capex %	Opex factor	Investment cost	Capex	Opex	1st time	End year	Finq	Index %	NPV	Tot costs
01.01.001	examination room ultra	35,00	2.939,28	5,90	127,12	102.875	6.070	4.449	2017	2067	1	1,0	596.191	
01.01.002	information rooms ??	31,80	2.939,28	5,90	127,12	93.469	5.515	4.042	2017	2067	1	1,0	541.682	
01.01.003	office (flexroom) #3	8,30	2.939,28	5,90	127,12	24.396	1.439	1.055	2017	2067	1	1,0	141.383	
01.01.004	consultation + examinu	16,00	2.939,28	5,90	127,12	47.028	2.775	2.034	2017	2067	1	1,0	272.545	
01.01.005	reception	30,90	2.939,28	5,90	127,12	90.824	5.359	3.928	2017	2067	1	1,0	526.352	
01.01.006	office research nurse (22,00	2.939,28	5,90	127,12	64.064	3.815	2.797	2017	2067	1	1,0	374.749	
01.01.007	group office internal m	88,30	2.939,28	5,90	127,12	259.538	15.313	11.225	2017	2067	1	1,0	1.504.108	
01.01.008	office headmanager #:	10,40	2.939,28	5,90	127,12	30.569	1.804	1.322	2017	2067	1	1,0	177.154	
01.01.009	Utility room	10,70	2.939,28	5,90	127,12	31.450	1.858	1.390	2017	2067	1	1,0	182.264	
01.01.000	consultation + examinu	16,00	2.939,28	5,90	127,12	47.028	2.775	2.034	2017	2067	1	1,0	272.545	
01.01.001	store room #3	20,60	2.939,28	5,90	127,12	60.549	3.572	2.619	2017	2067	1	1,0	350.901	
01.01.002	consultation + examinu	23,14	2.939,28	5,90	127,12	68.006	4.012	2.941	2017	2067	1	1,0	394.114	
01.01.003	basement	47,32	2.939,28	5,90	127,12	139.087	8.206	6.015	2017	2067	1	1,0	806.051	
01.01.004	basement	47,32	2.939,28	5,90	127,12	139.087	8.206	6.015	2017	2067	1	1,0	806.051	
01.01.005	IT room (SER)	13,74	2.939,28	5,90	127,12	40.389	2.383	1.747	2017	2067	1	1,0	234.069	
01.01.006	consultation + examinu	16,00	2.939,28	5,90	127,12	47.028	2.775	2.034	2017	2067	1	1,0	272.545	
01.01.007	sterile store	13,50	2.939,28	5,90	127,12	39.680	2.341	1.716	2017	2067	1	1,0	229.960	
01.01.008	consultation + examinu	16,00	2.939,28	5,90	127,12	47.028	2.775	2.034	2017	2067	1	1,0	272.545	
01.01.009	basement	47,32	2.939,28	5,90	127,12	139.087	8.206	6.015	2017	2067	1	1,0	806.051	



4. G. Calculation of Energy and Quality

RE Suite

DC&DST

File Edit Stock Building Design Generator Design Editor Analysis Dashboard management Files and settings Help

Stock Building Design Generator Design Editor Analysis Dashboard management

Energy Model

Name Existing Design - Clustering
Case definition Rijnstate Arnhem
Description Optimization with functional clustering
Energy efficiency 1,800,000,00
Carbon emission efficiency

Name	Case definition
Existing Design - Clustering	Rijnstate /
Alternative Design 1 - Clustering	Rijnstate /
Alternative Design 2 - Clustering	Rijnstate /

Add Edit Delete

DC&DST | RE_Suite_TFL9 | STREAMERALL | STREAMER all | DEMO Consultants TFL9 dev

RE Suite

DC&DST

File Edit Stock Building Design Generator Design Editor Analysis Dashboard management Files and settings Help

Stock Building Design Generator Design Editor Analysis Dashboard management

Quality Model

Name Alternative Design 1 - Clustering
Case definition Rijnstate Arnhem
Description Optimization with functional clustering
Patient satisfaction 5,00
Overall quality 3,00
Thermal comfort 4,00
Operational efficiency 2,00

Name	Case definition
Existing Design - Clustering	Rijnstate /
Alternative Design 1 - Clustering	Rijnstate /
Alternative Design 2 - Clustering	Rijnstate /

Add Edit Delete

DC&DST | RE_Suite_TFL9 | STREAMERALL | STREAMER all | DEMO Consultants TFL9 dev



4. H. Comparing KPI Dashboard

The screenshot shows the 'Dashboard configuration' window in the RE Suite software. The window title is 'Dashboard configuration'. The main area contains a grid of seven gauge charts, each displaying a value of 3.4. The gauges are arranged in three rows: the first row has two gauges, the second row has three gauges, and the third row has four gauges. The interface includes a menu bar with options like 'File', 'Edit', 'Stock', 'Building', 'Design Generator', 'Design Editor', 'Analysis', 'Dashboard management', 'Files and settings', and 'Help'. A sidebar on the left lists various categories such as 'Stock', 'Building', 'Design Generator', 'Design Editor', 'Analysis', 'Quality', 'Energy', 'LCC', 'MCA per case', 'Dashboard management', 'Dashboard', 'KPI's', 'Performance indicators', 'Indicators', and 'Information elements'. A 'Case alternatives' section is also visible, showing a table with columns 'Sel', 'Name', and 'Case def'. The status bar at the bottom indicates 'DC&DST | RE_Suite_TFL9 | STREAMERALL | STREAMER all | DEMO Consultants TFL9 dev' and 'CAPS | NUM | V2.2.6445.24004'.



5. Do it yourself

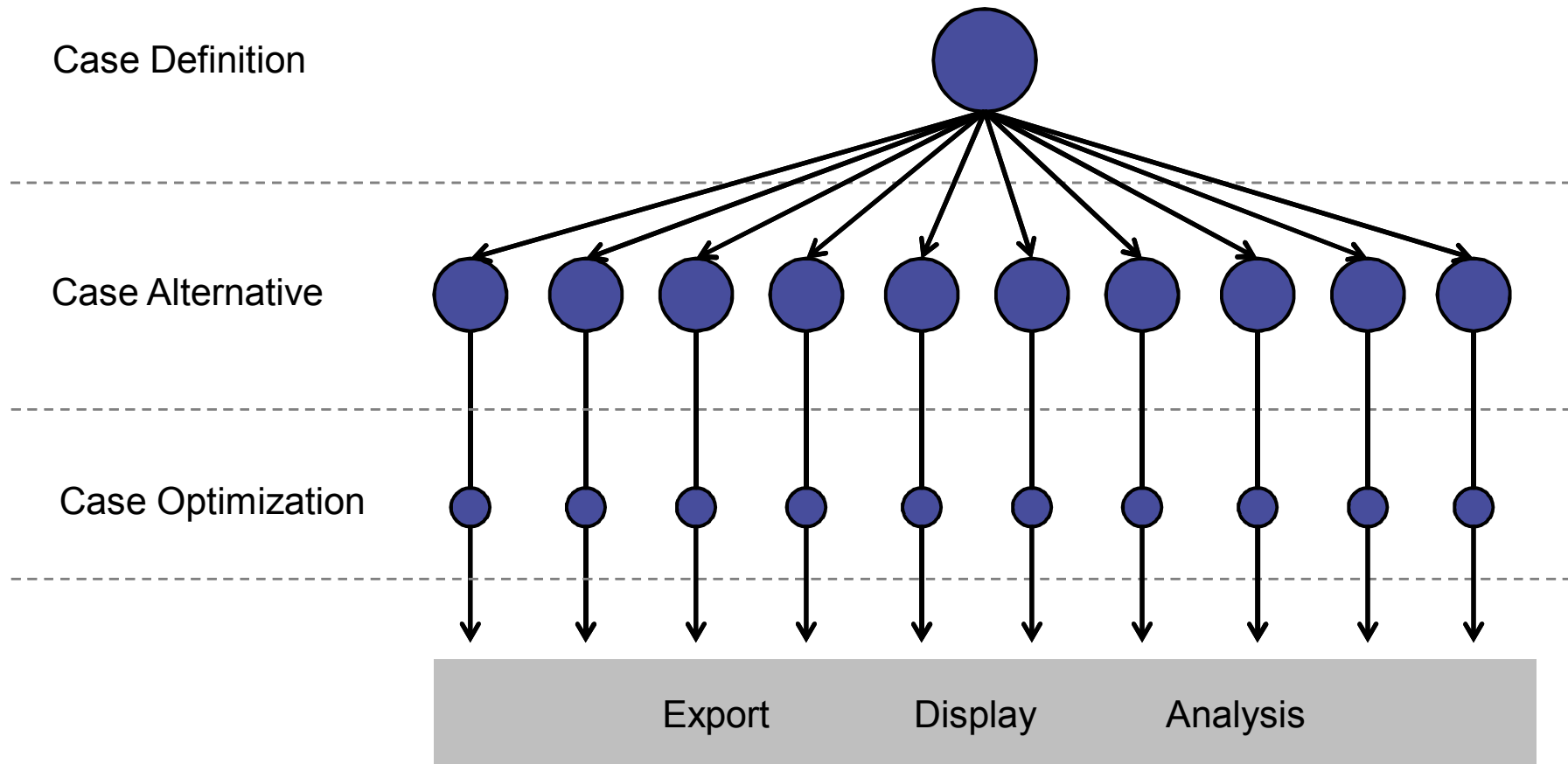
Energy Efficient Building (EEB) optimization at the early design phase by simulation and evaluation:

- MEP/HVAC systems for hospitals
- Envelope and spatial layout
- Characteristics
 - An extension of the north-east wing
 - Floor area: approximately 5.000 m²
 - To be built on and in between the existing hospital buildings
 - **Check the results and discuss**





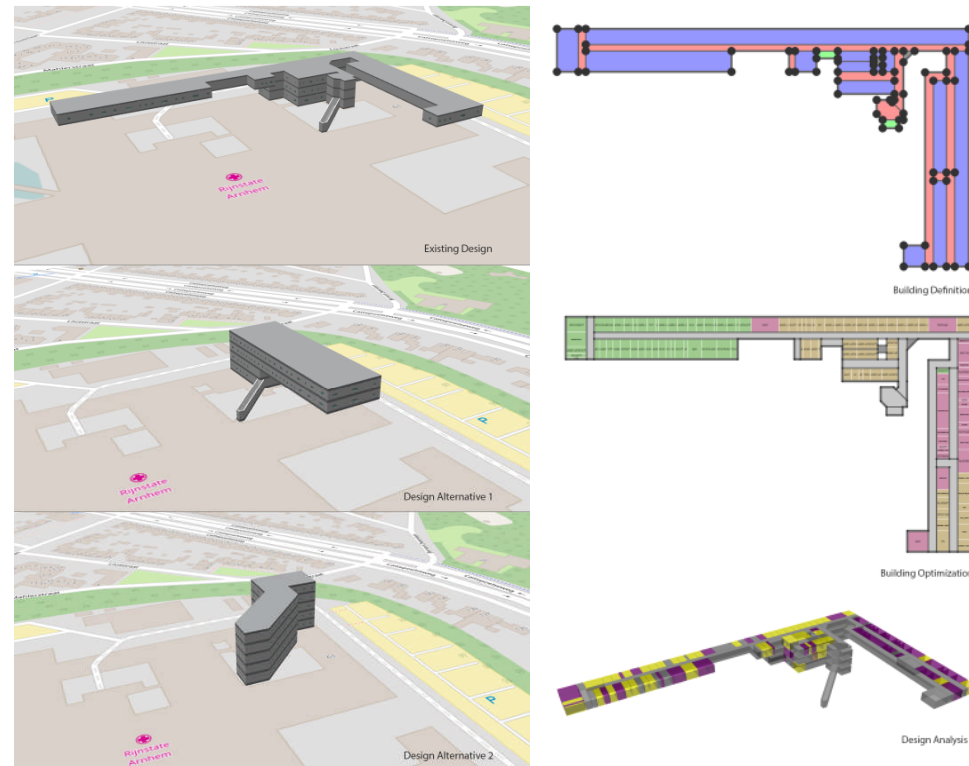
5. Do it yourself – Workshop structure





5. Do it yourself

- Koppel het verrijkte model aan het gekozen gebouw alternatief
- Bekijk de resultaten van het gegenereerde model
- Bekijk hoe de KPI's scoren op het hoogste abstractie niveau
- Bekijk hoe de KPI's scoren op het op een na hoogste abstractie niveau
- Bekijk hoe de LCC gekoppeld is aan het model
- Bekijk de energie resultaten van het model





6. Collecting the results - STREAMER MCA

RE Suite

DC&DST

File Edit Stock Building Design Generator Design Editor Analysis Dashboard management Files and settings Help

Streammer

MCA per case

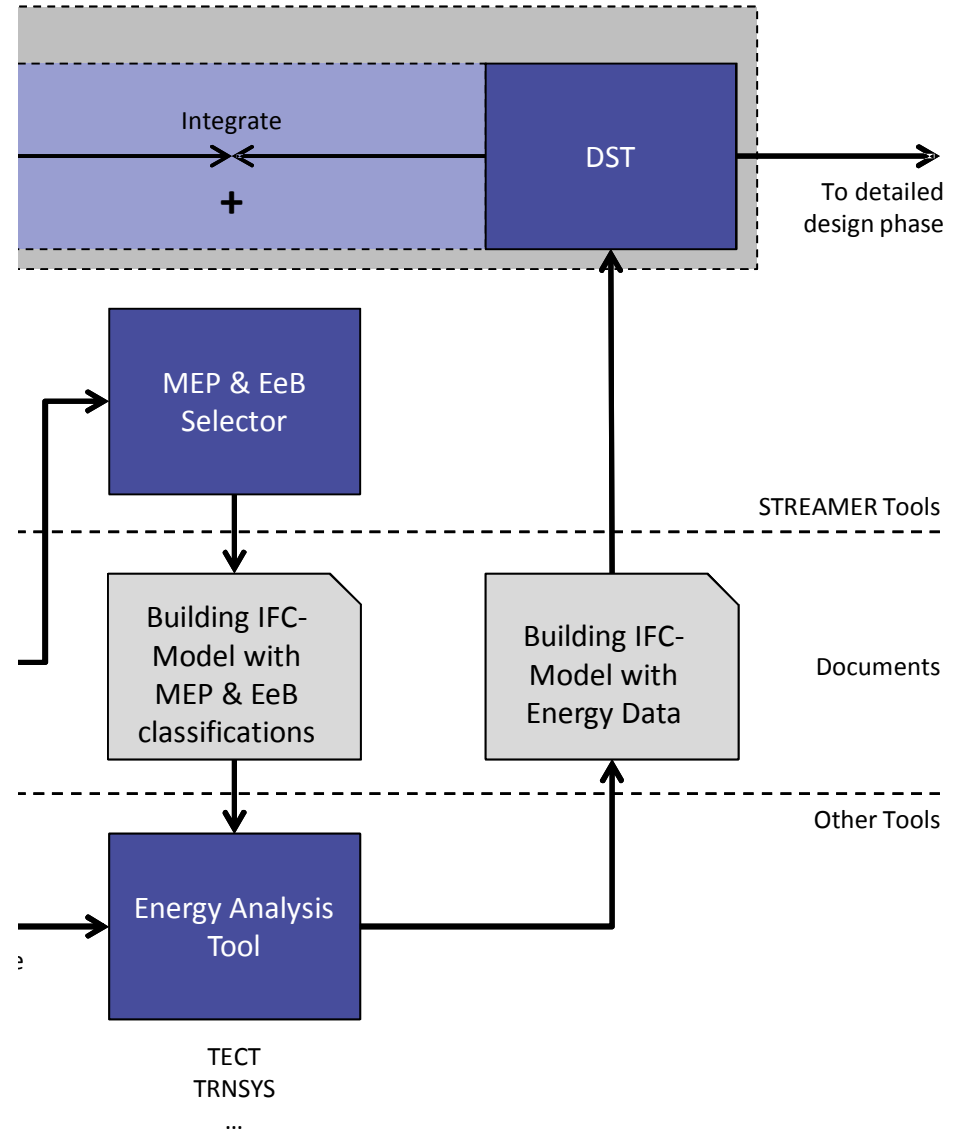
Indicator	Weighing factor	Existing Design - Clustering	Alternative Design 1 - Clustering	Alternative Design 2 - Clustering
<input checked="" type="checkbox"/> Energy efficiency	10	1.90	5.50	8.88
<input checked="" type="checkbox"/> Carbon emission efficiency	10	NaN	NaN	NaN
<input checked="" type="checkbox"/> Life cycle costs	10	5.62	4.17	1.00
<input checked="" type="checkbox"/> Patient satisfaction	10	NaN	5.00	NaN
<input checked="" type="checkbox"/> Overall quality	10	5.00	3.00	7.00
<input checked="" type="checkbox"/> Thermal comfort	10	NaN	4.00	NaN
<input checked="" type="checkbox"/> Operational efficiency	10	NaN	2.00	NaN
<input checked="" type="checkbox"/> Capex	10	3.16	2.72	1.00
<input checked="" type="checkbox"/> Opex	10	4.99	4.67	3.17
<input type="checkbox"/> Total	90	2.30	3.45	2.34

DC&DST | RE_Suite_TFL9 | STREAMERALL | STREAMER all | DEMO Consultants TFL9 dev

CAPS | NUM | V2.2.6445.24004

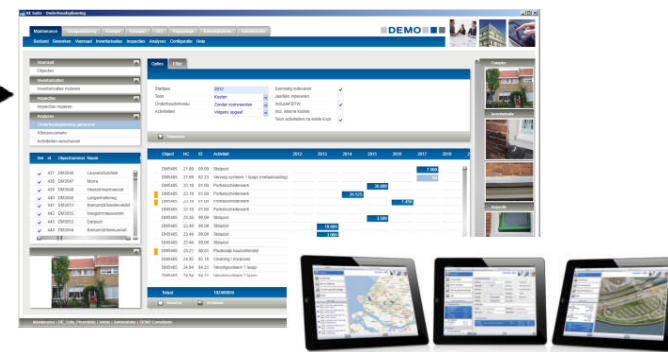
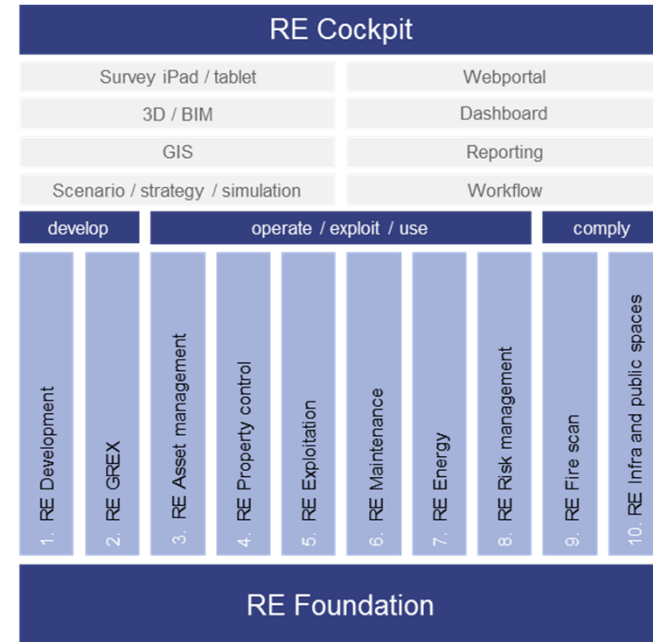
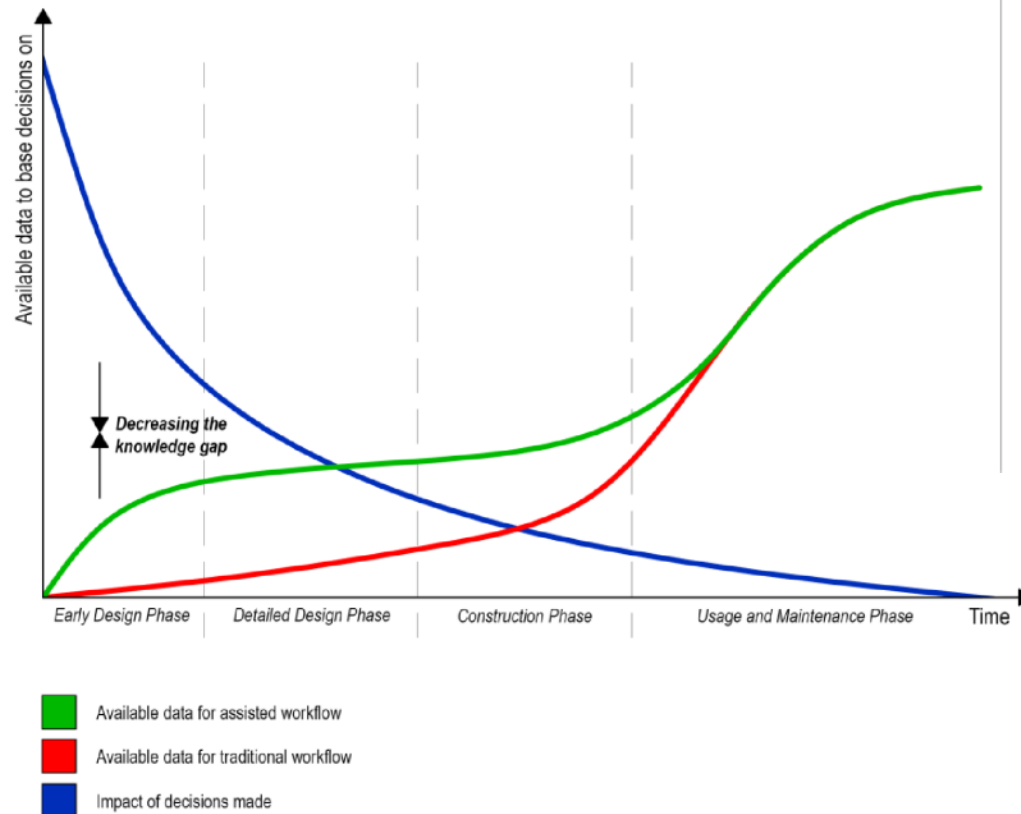


7. The Integration in RE Suite





7. The whole life cycle



7. BIM / IFC



Viewer

- Object 1
 - No name
 - Default
 - No name
 - bk liftput
 - bk fundering
 - ABT-C_begane grond
 - begane grond
 - bk stalen ligger
 - BG paneel boven
 - plafond beg.gr.
 - 1st
 - AB
 - 1e

IFC Object:
ifcID: 826280182
Name: plafond beg.gr.
Entity Name: IfcBuildingStorey
Description: No description
IfcBuildingStorey.GlobalId: 34Mim8HBP9Nu5UVZz\$1Wlv
IfcBuildingStorey.OwnerHistory: #41
IfcBuildingStorey.Name: plafond beg.gr.
IfcBuildingStorey.Description:
IfcBuildingStorey.HasAssignments:
IfcBuildingStorey.IsDecomposedBy:
IfcBuildingStorey.Decomposes:
#1471082
IfcBuildingStorey.HasAssociations:
IfcBuildingStorey.ObjectType:
IfcBuildingStorey.IsDefinedBy:
#1465433
IfcBuildingStorey.ObjectPlacement: #155
IfcBuildingStorey.Representation: #0
IfcBuildingStorey.ReferencedBy:
IfcBuildingStorey.LongName: plafond beg.gr.
IfcBuildingStorey.CompositionType:
IfcBuildingStorey.ReferencesElements:
IfcBuildingStorey.ServicedBySystems:
IfcBuildingStorey.ContainsElements:
#1465437
IfcBuildingStorey.Elevation:

IFC | RE_Suite_TFL6 | Inge | Administrator | DEMO Consultants TFL6 | CAPS | NUM | V2.1.5735.17593

7. Energy

RE Suite

Vastgoedfinanciering Maintenance BrandScan RisicoAnalyse **Energie** GIS Rapportage Behoeftenplannen Administratie Opname Carthoek

Bestand Bewerken Voorraad Projecten Help

DEMO

Voorraad VHE's Projecten Opnamen Certificaten Almeiden

VHE nummer	Straat	Huisnummer	Toevoeging
1190	Lauwers 1		
1194	Lauwers 6		
1195	Lauwers 7		
1197	Lauwers 9		
1198	Lauwers 10		
1200	Lauwers 12		
1201	Lauwers 14		
1204	Lauwers 20		
1205	Lauwers 22		
1206	Lauwers 24		
1207	Lauwers 26		
1209	Lauwers 30		
1210	Lauwers 32		
1211	Lauwers 34		
1212	Lauwers 36		
1213	Lauwers 38		
1215	Lauwers 46		
1216	Lauwers 50		
1217	Lauwers 52		

Energie label woning

Abgegeven conform de Regeling energieprestatie gebouwen.

Veel besparingsmogelijkheden.

Uw woning

Weinig besparingsmogelijkheden

Labelklasse maakt vergelijking met woning(en) van het volgende type mogelijk.

Rijwoning hoek

Gebruiksoppervlakte 145 m²	Adviesbedrijf DEMO Consultants
Opnamedatum 28 januari 2014	Inschrijfnummer IKB1955/09
	Handtekening

DEMO CONSULTANTS

Straat
Lauwers
Nummer/toevoeging
1
Postcode
8032 ZA
Woonplaats
Bemisse

Energie label op basis van een ander representatief gebouw of bouwdeel? Nee
Adres representatief gebouw of bouwdeel:

Wijzig

Energie | RE_Suite_Presentatie_Algemeen_B | Andre | Administrator | DEMO Consultants

CGPS | NUM | V1.0.5240.40025

7. Maintenance



Inspectierogats

Debrek	I	O	C	B	G	B	V	K	V	Activiteit	Huh	Cor	Cor	Start	Start	End	End	C	Fonds	Werk	Bew	Plaats	
	N	M	V	E	E	I	E	L	S			fact	jaar	jaar	jaar	jaar	jaar	N	O	soort	code	code	
12 / Ge	1	2	1									100	100	2013	2013	2009	2009	1					

Object Maintenance Table

Object	HC	ID	Activiteit	2012	2013	2014	2015	2016	2017	2018
DMS405	21.80	99.09	Stelpost						7.500	
DMS405	21.99	82.23	Vervolg systeem 1 laag (metaalcoating)						60	
DMS405	23.10	01.00	Portiekschilderwerk				30.000			
DMS405	23.10	01.00	Portiekschilderwerk		26.525					
DMS405	23.10	01.00	Portiekschilderwerk					1.456		
DMS405	23.10	01.00	Portiekschilderwerk					3.500		
DMS405	23.30	99.09	Stelpost							
DMS405	23.40	99.09	Stelpost		10.000					
DMS405	23.40	99.09	Stelpost		3.000					
DMS405	23.40	99.09	Stelpost					5.000		
DMS405	24.21	00.03	Plaatselijk houtrotherstel							1.02
DMS405	24.92	82.19	Cleaning / invassen					15.431		
DMS405	24.94	84.22	Vervolgsysteem 1 laag							
RMKLGN	74.94	RL 77	Vervolgsysteem 1 laag							
Totaal		102469856		7310022	6874284	6052626	5369710	5415895	4811560	6025502



7. Cashflow en costs

RE Suite

Vastgoedsturing Maintenance BrandScan RisicoAnalyse Energie GIS Rapportage Beheerplannen Administratie Oprime Carftwek

Bestand Bewerken Voorraad Exploitatie Portefeuille Beleidsstructurering Voorraadbeleid Configuratie Help

DEMO

Voorraad
Objecten
VHE's
Exploitatie
Kasroom
Kengetalen
Portefeuille
Portefeuille analyse
Portefeuille MCA
Beleidsstructurering
Beleidslabels
Thema's
Maatregelen
Beleidsboom
Voorraadbeleid
Beleidslabels
Maatregelen

Sel Id Buurt Gemeente Object

- 437 Amsterdam
- 438 Binnenstad-kampen Delft
- 440 Oud-assendorp Amsterdam
- 442 Wezep-noord Amsterdam
- 443 Roerdalen Amsterdam
- 444 Oud-assendorp Amsterdam
- 445 Bagijneweide Amsterdam

Kasroom **Kostprijs**

Post	Omschrijving	Bedrag	NCW	Tot Nominaal	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
01	Inkomsten	4.167.502	104.138.275	280.341.580	4.227.038	4.311.578	4.397.809	4.505.605	4.575.428	4.666.936	4.760.275	4.855.480	4.952.590	5.051.642	5.152.675	5.255.728	5
01.01	Huur	4.147.352	104.120.556	280.321.116	4.226.886	4.311.424	4.397.652	4.485.605	4.575.428	4.666.936	4.760.275	4.855.480	4.952.590	5.051.642	5.152.675	5.255.728	
01.01.01	Contracthuur	4.147.452	104.120.946	280.321.535	4.226.988	4.311.528	4.397.758	4.485.713	4.575.428	4.666.936	4.760.275	4.855.480	4.952.590	5.051.642	5.152.675	5.255.728	
01.01.02	Huurderving	-100	-390	-419	-102	-104	-106	-108									
01.02	Bijdragen	150	442	464	152	155	157										
01.02.01	Bijdragen	150	442	464	152	155	157										
01.03	Overige inkomsten	20.000	17.277	20.000				20.000									
01.03.01	Verkoopbrengsten	20.000	17.277	20.000				20.000									
02	Uitgaven	273	1.886.518	4.693.590	105.946	66.547	215.702	134.313	163.576	78.597	88.658	49.724	76.813	129.569	126.644	76.534	
02.01	Onderhouds uitgaven	1.879.362	4.671.450	105.668	66.264	215.414	134.020	163.278	78.294	88.349	49.410	76.493	129.243	126.313	76.197		
02.01.01	Planmatig onderhoud	1.879.362	4.671.450	105.668	66.264	215.414	134.020	163.278	78.294	88.349	49.410	76.493	129.243	126.313	76.197		
02.01.02	Mutatieonderhoud	0	0	0													
02.01.03	Klachtenonderhoud	0	0	0													
02.02	Overige exploitatie uitgaven	273	7.156	22.140	278	283	288	293	298	303	309	314	320	326	331	337	
02.02.01	Administratie en beheer	123	3.058	9.199	125	127	129	131	133	134	137	139	141	143	145	147	
02.02.02	OZB	0	0	0													
02.02.03	Overige belastingen	100	2.732	8.627	102	104	106	108	110	113	115	117	120	122	124	127	
02.02.04	Verzekeringen	50	1.366	4.314	51	52	53	54	55	56	57	59	60	61	62	63	
02.02.05	Erfpachtcanon	0	0	0													
02.03	Overige uitgaven	0	0	0													
02.03.01	Overige uitgaven	0	0	0													
02.03.02	Niet verhaalbare servicekosten	0	0	0													
03	Baten (overige)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04	Kosten (Overige)	126	132	44	44	44	44	44	44	44	44	44	44	44	44	44	44
05	Inkomsten o.b.v maatregelen	-20.464.969	-58.887.246	-74.510	-152.000	-232.559	-336.886	-1.064.369	-1.085.656	-1.107.369	-1.129.517	-1.152.107	-1.175.149	-1.198.652	-1.222.625	-1.246.158	-1.270.731
06	Uitgaven o.b.v. maatregelen	271.461	-390.821	233.473	238.143	130.724	-35.147	-10.234	-2.524	-2.206	-4.257	-7.669	-36.221	-63.392	-8.186	-11.741	-15.296
09	Saldi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Impact	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Vastgoedsturing | RE_Suite_Presentatie_Algemeen_B | Andre | Beleidsmedewerker | DEMO Consultants | CAPS | NUM | V1.0.5240.0025



7. In depth insight in data and information

RE Suite

Vestgoedsturing Maintenance BrandScan RisicoAnalyse Energie GIS Rapportage Beheerplannen Administratie Optime Carlsheek

Bestand Bewerken Voorraad Exploitatie Portefeuille Beleidsstructurering Voorraadbeleid Configuratie Help

DEMO

Voorraad
Objecten
VHE's
Exploitatie
Kasstroom
Kengetallen
Portefeuille
Portefeuille analyse
Portefeuille MCA
Beleidsstructurering
Beleidslabels
Thema's
Maatregelen
Beleidsboom
Voorraadbeleid
Beleidslabels
Maatregelen

Algemeen VHE's Overzicht Financieel Contract **Portefolio's** MCA Beoordelingen Media Documenten Notities BIM

huur / GBO

Bruto huur gemiddeld

Prijs WOZ

Prijs-kwaliteit

Marktwaaarde

Marktwaaarde

Marktwaaarde :5,00

Indicator naam :Marktwaaarde gemiddeld

Indicator waarde voor 1 :19200

Indicator waarde voor 10 :192000

Indicator formule :BrutoOpenMarktwaaardeAVG

Indicator formule numeriek :36477,25

Indicator waarde :36.477,25

Indicator waarde 1 tot 10 :5,00

Indicator weegfactor :1

Vast :5,00

Indicator naam :Vast

Indicator waarde voor 1 :10

Indicator waarde voor 10 :20

Indicator formule :14

Indicator formule numeriek :14

Indicator waarde :14,00

Indicator waarde 1 tot 10 :5,00

Indicator weegfactor :1

Id	VHE nummer	Straat	Huisnummer	Toevoegsel	Woningtype 1	Exploitatie eindjaar	Exploitatie ingangjaar	Oppervlak tot vertrekken	Recordstatus	Bouwjaar
14221	1190	Lauwers	1		2	2034	1974	69	1	1974
14222	1194	Lauwers	6		2	2034	1974	69	1	1974
14223	1195	Lauwers	7		2	2034	1974	68	1	1974
14224	1197	Lauwers	9		2	2034	1974	68	1	1974
14225	1198	Lauwers	10		2	2034	1974	69	1	1974
14226	1200	Lauwers	12		2	2034	1974	69	1	1974
14227	1201	Lauwers	14		2	2034	1974	69	1	1974
14228	1204	Lauwers	20		2	2034	1974	69	1	1974
14229	1205	Lauwers	22		2	2034	1974	69	1	1974
14230	1206	Lauwers	24		2	2034	1974	69	1	1974

Vestgoedsturing | RE_Suite_Presentatie_Algemeen_8 | Andre | Beleidsmedewerker | DEMO Consultants

CAPS | NUM | V1.0.5240.40025



7. Risk management

RE Suite

Vestgoedhuizing Maintenance BrandScan **RisicoAnalyse** Energie GIS Rapportage Beheerplannen Administratie Opname Carftotheek

Bestand Bewerken Voorraad Inspecties Analyses Configuratie Help

DEMO

Voorraad
Objecten
Inspecties
Planning
Opname specificatie
Opname
Analyses
Analyses

Risicokaart financieel Risicokaart veiligheid Risicokaart imago Risicokaart totaal

Financieel < 10% 10%-30% 30%-50% 50%-70% > 70%

Meer dan € 100.000 per keer	1	1	1	1	1
Tussen de € 50.000 - € 100.000 per keer	3	1	1	1	1
Tussen de € 10.000 - € 50.000 per keer	1	1	1	1	1
Tussen de € 2.500 - € 10.000 per keer	1	1	1	1	1
< € 2.500 per keer	1	1	1	1	1

Nr.	Complex	Ongewenste gebeurtenissen of tekortkomingen	Kansklasse	Gevolg financieel	Risico financieel
1	DM3546	Vallen van hoogte tijdens onderhoudswerkzaamheden	2	2	4
7	DM3546	Stichtoffers bij brand	3	4	12
8	DM3546	Uitbreiding brand	2	4	8
11	DM3546	Stichtoffers door electrocutie of brand	2	4	8
12	DM3546	Stichtoffers door gasexplosie	2	5	10
9	DM3546	instortingsgevaar	2	4	8
2	DM3546	Vrijkomen van asbest	2	3	6

RisicoAnalyse | RE_Suite_Presentatie_Algemeen_B | Andre | Administrator | DEMO Consultants

CGPS | NUM | V1.0.5240.40025



7. Dashboard



Colophon

PowerPoint: Decision Support Tool
Issue Date: 20-09-17
Author: André van Delft & Sander Bruinenberg (DEMO Consultants)
Version: 1.0

The Streamer project is co-financed by the European Commission under the seventh research framework programme FP7-2013-NMP-ENV-EeB with contract no.: 608739. The information in this publication does not necessarily represent the view of the European Commission.

© **Streamer**

All rights reserved. Any duplication or use of objects such as diagrams in other electronic or printed publications is not permitted without the author's agreement.



Streamer 
European research on energy-efficient healthcare districts