



giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Upravljanje infrastrukturnim sredstvima Saveti vodovodnim preduzećima iz jugoistočne Evrope

Komentari i očekivanja u FAZI I





Predavač:

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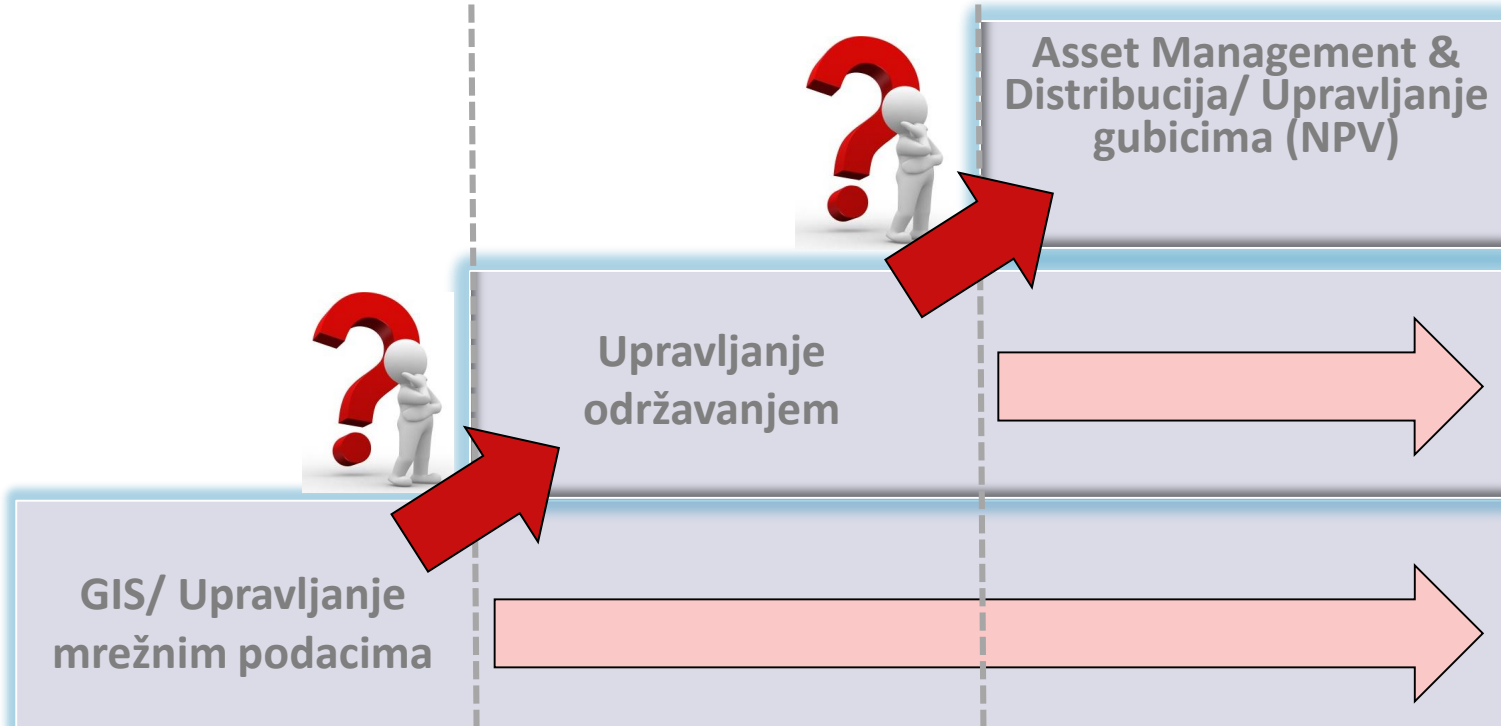
Program Komentari i očekivanja u FAZI I

-  Cloud – Demonstracija uživo
-  Faza I – Napredak ka fazi II
-  Faza I – Teme koje treba predstaviti i delimično obraditi
-  SEEAM Program – Očekivanja vodovoda

1. Faza:
Srebrni paket

2. Faza:
Zlatni paket

3. Faza:
Platinasti paket





Komentari i očekivanja u FAZI I

- ③ **Faza I – Teme koje treba predstaviti i delimično obraditi**
 - ③ Zoniranje
 - ③ Upravljanje izveštajima
 - ③ Upravljanje imovinom
 - ③ Kanalizaciona mreža (opciono)

SEEAM Faza I – Upravljanje zonama



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EDAMS Zone Manager

File Edit View Analysis Tools Schematics Reports Windows Help

Chains
DMA 10093
DMA 10094
DMA 10095
DMA 10096
DMA 10097
DMA 9900
DMA 9903
DMA 9904
DMA 9906
DMA 9912
DMA 9916
DMA 9917
DMA 9919
DMA 9920
DMA 9922
DMA 9923
DMA 9924
DMA 9925
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DMA 9940
DMA 9941
DMA 9942
DMA 9943
DMA 9944
DMA 9945
DMA 9946
DMA 9947
DMA 9948
DMA 9949
DMA 9950
DMA 9951
DMA 9952
DMA 9953
DMA 9954
DMA 9955
DMA Aspin Heights
DMA Bendore Drive

DMA 10096

X:35.129km, Y:-3743.820km

Zone Properties (District)

Main Zone Elements Zone Boundaries Statistics Shared Zones Supply

Type	ID	Ref	Direction
Closed Valve	1615	Valve 941	
Closed Valve	1616	Valve 942	
Closed Valve	2134	Valve 1461	
Closed Valve	4972	Valve 4324	
Closed Valve	4978	Valve 4330	
Closed Valve	5004	Valve 5004	

OK Cancel



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SEEAM Faza I – Upravljanje izveštajima



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Reporting - D:\Assets_projects\Project_Files\naissus.rpj

Network Map | Water Pumpstations

Element Views

- Water Chambers
- Water Treatment Plants
- Geo Water Connections
- Meter Chambers
- Borehole Sites
- Supply Points

Page Layout

Legend

- Line
- Label
- Rectangle
- Data Frame
- Data Frame

Legend Title

- Water Chambers
- Water Treatment Plants
- Geo Water Connections
- Meter Chambers
- Borehole Sites
- Supply Points
- Opened Valves
- Closed Valves
- Control Valve Chambers
- Water Pumpstations
- Tower Sites
- Reservoir Sites
- Water Pipes
- Water Chains
- Water Nodes

X: 5.180 cm, Y: 33.300 cm Legend: 2.000, Y: (

Layer Properties

General | Filtering | Labelling | Thematics

Features

Name: View for Water Nodes

Layer Extents: m

-2859597.750

1591.461 7492386.500

Layer Visible

Enable Labelling

Enable Thematic Maps

Reporting - D:\Projects\LSDB\Project_Files\LSDB_IMAGE_GENERATE.rpj

Network Map

GIS Layers

- Parcels
- C_11_Area

Parcels | Id: 36123 | 0 object(s) selected | X:256.141km, Y:364.929km



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SEEAM Stage I – Upravljanje imovinom



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Components Library

Component ID	Name	Icon	Group	Standard Component
1	Battery		Electrical	✓
2	Cabling		Electrical	✓
3	General Lighting		Electrical	✓
4	Electrical Control Panel		Electrical	✓
5	Motor Control Centre (MCC)		Electrical	✓
6	Motor starting equipment		Electrical	✓
7	Overhead line		Electrical	✓
8	Protection devices		Electrical	✓
9	Switchgear		Electrical	✓
10	Substation		Electrical	✓
11	Transformer		Electrical	✓
12	CCTV		Electrical	✓

Library Component: [Cabling]

General | Details

Name: Cabling
 Group: Electrical
 Details: Electrical cabling, conduits, enclosures and fittings

OK Cancel

Assets Register (Hierarchy)

Element Type Group: All
 Element Type: All
 type here to search element(s)

Show Filtered Elements options
 Show all children elements
 Show only filtered element

- Reservoir Site 1 (Reservoir Site 1)
- Reservoir Site 2 (TAY1)
- Reservoir Site 3 (TAY2)
- Reservoir Site 4 (Reservoir Site 4)
- Meter Chamber 1 (AREA 12 (FS12))
 - Meter Position 15 (Meter Position 15)
 - Bulk Meter 14 (AREA 12)
- Meter Chamber 2 (AREA 1 (FS1))
 - Meter Position 2 (Meter Position 2)
 - Bulk Meter 2 (AREA 1)
- Meter Chamber 3 (AREA 2 (FS2))
 - Meter Position 1 (Meter Position 1)
 - Bulk Meter 1 (AREA 2)
- Meter Chamber 4 (AREA 3 (FS3))
 - Meter Position 3 (Meter Position 3)
 - Bulk Meter 3 (AREA 3)
- Meter Chamber 5 (AREA 4 (FS4))
 - Meter Position 4 (Meter Position 4)

Eq...	Equals:	Com
1	15	Met
2	14	ARE

SEE AM: Opcione aktivnosti Kanalizaciona mreža



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- Sewer Node (Ctrl + N) Ctrl+N
- Sewer Chain (Ctrl + C) Ctrl+C
- Manhole Area
- Sewer (Ctrl + S) Ctrl+S
- Conduit
- Pump Line
- Manhole
- Sewer Pumpstation
- Storage Pond
- Treatment Works
- Geo Sewer Connection

Implementiran je sistem klasifikacije elemenata koji se koristi u Evropi.

Evropski standard (EN 13508-Deo 2: Uslovi odvodnih I kanalizacionih sistema van zgrada – Deo 2: Sistem kodiranja vizuelne inspekcije.

Pipe lining material types

Code	Description
AA	Asbestos cement
AB	Bitumen
AC	Pitch fibre
AD	Reinforced concrete
AE	...
AF	...
AG	...
AH	...
AI	...
AJ	...
AK	...

Asset locations

Name	Default
in a road	<input type="checkbox"/>
in a footway beside road	<input type="checkbox"/>
in verge beside a road	<input type="checkbox"/>
in other pedestrian area	<input type="checkbox"/>
in field	<input type="checkbox"/>
on property with buildings	<input type="checkbox"/>
gardens	<input type="checkbox"/>
under a permanent building	<input type="checkbox"/>
woodland	<input type="checkbox"/>
difficult access (e.g. motorway or o...	<input type="checkbox"/>
under a waterway	<input type="checkbox"/>
unknown	<input checked="" type="checkbox"/>

3a Sewer GIS/ Network Data Management & Facility Management (Treatment Works)			
3a.1	Network Data Model	Structure for maintenance, design and analysis applications	Managers
		Data Capturing Element Libraries	
3a.2	Data Acquisition & Structuring	Connectivity Rules & engineering integrity network data field validation and discrepancy analysis	Managers
3a.3	Zoning Management	Engineering zones Discrepancies control	Managers
	Metering Management	Zone calibration Metering control	
3a.4	Advanced Sewer Management	Quality monitoring Facility Management	Managers
		Developing Hierarchical Structures	

SEE AM: Opcione aktivnosti Kanalizaciona mreža



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-  Sewer Node (Ctrl + N) Ctrl+N
-  Sewer Chain (Ctrl + C) Ctrl+C
-  Manhole Area
-  Sewer (Ctrl + S) Ctrl+S
-  Conduit
-  Pump Line
-  Manhole
-  Sewer Pumpstation
-  Storage Pond
-  Treatment Works
-  Geo Sewer Connection
-  Gully And Connection
-  Gully
-  Isolation Structures
-  Sampling Point
-  Sewer Pump
-  Flow Measuring Point

The screenshot displays the EDAMS Network Assets Management interface. The main window shows a map of a sewer network with orange lines and green nodes. A data entry form for 'Manhole 8542 - chatty 3164' is open in the foreground. The form includes the following fields:

- User Ref.:** chatty 3164
- Type:** Manhole
- Importance:** Average
- GIS Key:** 8542
- Connectivity:**
 - On Node: 8550
 - D/S Chain: 8555
- Area:** (empty field)
- Construction Date:** 04/10/2009
- First Day of Use:** 04/10/2009

The background map shows a complex network of pipes and manholes. The status bar at the bottom indicates coordinates (45174.297683, -3746550.386802), dimensions (Width: 3.32 km, Height: 1.83 km), and scale (1:18975).






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SEE AM Program – Očekivanja vodovoda



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A. Opšta očekivanja

- Razmena iskustava sa kolegama
- Unapređenje znanja na osnovu iskustva eksperata
- Obaveze vodovoda učesnika programa
- Opisati mogućnosti (trenutno stanje preduzeća i kako nastaviti dalje?)



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B. Učinak & Izveštavanje

- Opšte poboljšanje usluga
- Bolje izveštavanje
- Bolji pokazatelji učinka i unapređenja

C. Mreža & Imovina

- Integracija baza podataka
- Interakcija sa mapama i prikupljenim vizuelnim informacijama
- Bolje razumevanje mreže i njenih slabih tačaka
- Smanjenje gubitaka (NPV)
- Bolje planiranje & razvoj (Investicije)



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