

Management of Road Maintenance with SMART

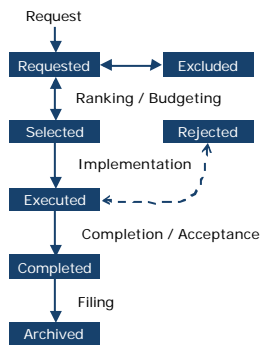
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Chief Consultant
Bridge Management and Materials Technology

SMART Asset Management System

- Overview of Assets
- Overview of Documents
- Overview of Condition
- Overview of Economy
- Activity Management
 - Planning
 - Budgeting
 - Priority Ranking
 - Follow-up on Execution and Economy
 - Archive of executed activities
- Everything available on Internet / Intranet



Work order life cycle



All parties involved perform their activities in the same database through the web, governed by individual user rights.

Administration of 15-year service contract for a Danish Municipality

RAMBØLL

Job Data (New/Edit Job)

Job Description:
 1 Municipality: Ny Høbbæk Kommune
 2 Type of asset: Belysninger
 3 Road: Drejervej (T)
 4 Section: Have Ronvej - Vendeplads rundt

Job Status:
 Completed

Job Type: Routine Maintenance Job
Job Name: Hele strækningen
Job Supplier: Colas Danmark A/S
Job Planning Info: Udføres sammen med resten af Drejervej og Bygaden.

Execution Date:
 Executed Week: 2006.42
 Initials: CEH
 Closing Price: 0
 Reported Info: Hele Drejervej udført - 2 delstrækninger

Job Description, details:
 Execution Week: 2006.44
 Budget: 0 (price year 2007)
 Job Subtype: Not registered
 Request Date: 2007-02-20
 Account: 103 VAB-3
 Initials: CEH (4034 6524)
 Priority: 0 Medium Priority
 Fixed rate: None

Composition of items from Bill of Quantities: TBL 1

Item	Name	Unit	Req. quan.	Clos. quan.
16	Belyst maskinafretning-m2	m2	0	1680
17	Belyst maskinafretning-ton	ton	0	109.2
95	Udskitfning af faste dæksler	stk	0	6
96	Udskitfning af faste riste	stk	0	4
98	GAB til udskitfning	ton	0	2
[B] 40	Tilslutningsfræsning	m2	0	50

[B] Extra work from Bill of Quantity, [E] Extra work
 All prices are from year 2007

Order Number: 91
 Asfaltdagar 2007

Estimated and completed quantities of standard items

Composition of items from Bill of Quantities: TBL 1

Item	Name	Unit	Unt.price	Req. quan.	Clos. quan.
16	Belyst maskinafretning-m2	m2	0	1680	1863
17	Belyst maskinafretning-ton	ton	0	109.2	113.56
95	Udskitfning af faste dæksler	stk	0	6	6
96	Udskitfning af faste riste	stk	0	4	4
98	GAB til udskitfning	ton	0	2	3.8
[B] 40	Tilslutningsfræsning	m2	0	---	50

[B] Extra work from Bill of Quantity, [E] Extra work
 All prices are from year 2007

Open list

Asfaltdagar 2007

6

Work Report **Order Number: 61**

Job Status: Completed **Executed (year/week/initials):** 2006.42/CEH

Place:
 1 Municipality: Ny Høbbæk Kommune
 2 Type of asset: Belysninger
 3 Road: Drejervej (T)
 4 Section: Have Ronvej - Vendeplads rundt

Job Type etc.:
 Job Type: Routine Maintenance Job
 Job Subtype: Not registered
 Keywords: Tølløse

Request Data:

Job Name:	Hele strækningen	Execution Week:	2006.44 (year/week)
Job Supplier:	Colas Danmark A/S	Initials:	CEH (4034 6524)
Budget:	0 (price year 2007)		

Job Planning Info: Udføres sammen med resten af Drejervej og Bygaden.

Documents: (documents attached at request time)

Bill of Quantity: TBL1

Item	Name	Unit	Request ed Quantity	Closing Quantity	Closing Price
16	Belyst maskinafretning-m2	m2	1680	1863	0
17	Belyst maskinafretning-ton	ton	109.2	113.56	0
95	Udskitfning af faste dæksler	stk	6	6	0
96	Udskitfning af faste riste	stk	4	4	0
98	GAB til udskitfning	ton	2	3.8	0
[B] 40	Tilslutningsfræsning	m2	---	50	0
Total	---	---	---	---	0

All prices are from year 2007. [B] Extra work from Bill of Quantity, [E] Extra work

Documents: (documents attached after request time)

Report Info: Hele Drejervej udført - 2 delstrækninger.

Asfaltdagar 2007

7

Job Data (New/Edit Job)

Job Description:
 1 Municipality: Ny Høbbæk Kommune
 2 Type of asset: Belysninger
 3 Road: Drejervej (T)

Job Status:
 Completed

Log
 Log of Status Changes for Job: Cleaning

2007-02-20 09:49: Username 'turner'. Job Status changed from 'Executed' to 'Completed'
 2007-02-20 09:48: Username 'turner'. Job Status changed from 'Selected. Time exceeded' to 'Executed'
 2006-03-09 10:52: Username 'BLBL'. Job Status changed from 'Requested' to 'Selected. Time not exceeded'
 2006-03-08 12:31: Username 'BLBL'. Job created by user

Order Number: 91
 Asfaltdagar 2007

8

Internet Explorer - SMART - KTK VEJ

Registering Jobbering Indtælingsregistering RapportOvervåg Administration Hjælp Log

Administration of routine inspections and maintenance of the streets of Copenhagen

RAMBØLL

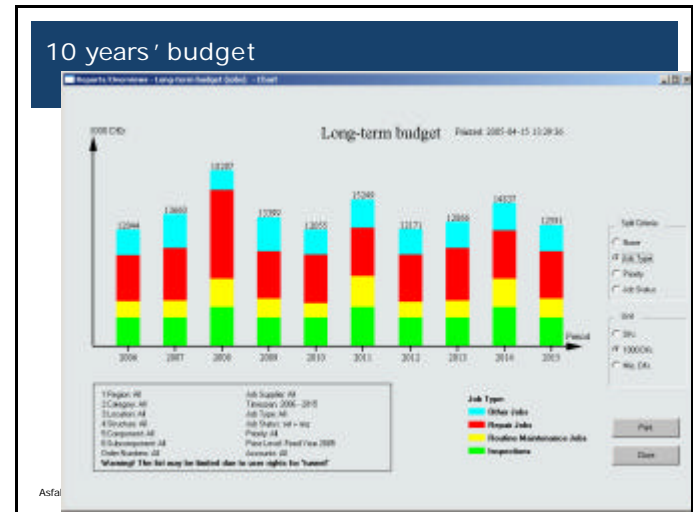
Work order life cycle

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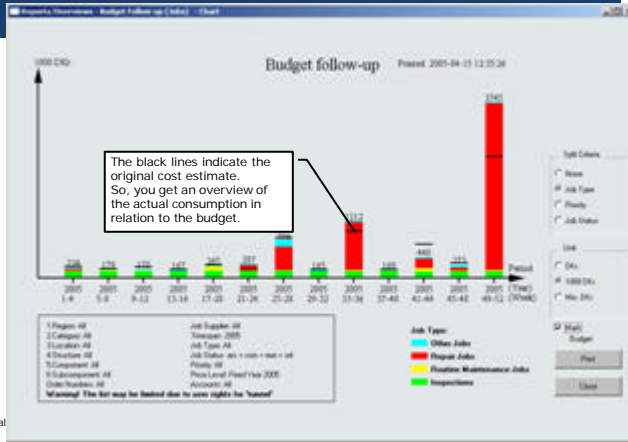
    graph TD
      Request[Request] --> Requested[Requested]
      Requested --> Excluded[Excluded]
      Excluded --> Requested
      Requested --> Rejected[Rejected]
      Rejected --> Requested
      Rejected --> Implementation[Implementation]
      Implementation --> Completion[Completion / Acceptance]
      Completion --> Filing[Filing]
      Filing --> Closed[Closed]
  
```

SMART Mobile

Asfaltdagar 2007



Budget follow-up, current year



www.ramboll-smart.com

Thank you

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