

WEB, WMS & WFS

**BENTLEY GEO WEB  
PUBLISHER**

# Rune Tvilum

- ◉ Datamatiker fra 1998
- ◉ Landinspektør fra 2004
- ◉ COWI A/S: GIS-Konsulent
- ◉ Tvilum Landinspektørfirma A/S:
  - GIS og IT udvikling
  - Traditionelt landinspektør arbejde
- ◉ Web-kort løsninger
  - Bentley Geo Web Publisher siden 2005
  - Google Map
- ◉ Programmering
  - Applikationer til MicroStation
  - Web-services
  - Hjemmesider

# Agenda

- ⦿ Demo af Bentley Geo Web Publisher
- ⦿ Workflow: Editerbart lag på webside
  - Oracle XFM projekt → Geo Web Publisher
- ⦿ WMS
  - Geo Web Publisher → MicroStation
- ⦿ WFS
  - Geo Web Publisher → MicroStation

# Demo af Bentley Geo Web Publisher

- <http://geodatabase.gis-hotel.dk/Examples/completemapexample/default.aspx>

The screenshot displays the Bentley Geo Web Publisher web application interface. At the top, the title "Geo Web Publisher" is visible, along with a navigation bar containing "Home", "Thematic", and "Redline" options. The Bentley logo is positioned in the upper left corner of the map area.

The main map area shows a green-tinted map of a residential area with white roads and several circular icons (red, blue, green) overlaid on the map. A north arrow is located in the top right corner of the map.

On the left side, there is a "Map Layers" panel with a list of layers and their visibility status:

- Aerial
- Landmark
- Folio
- Parcel
- Hypsography
- Planimetry
- Landuse

Below the layers panel is a "Searches" section with a dropdown menu labeled "--- Select ---" and a "Clear Symbols" button.

At the bottom of the map area, there is a status bar displaying the following information:

- Scale: 400 m
- Map Mode: Pan
- Scale: 1:15868
- Map Size: 4 x 2 (km)
- Coordinates: XYMin: 501021,5550446 XYMax: 504957,5552632
- Current Location: X=503855 Y=5551712

Below the status bar is a toolbar with various navigation and tool icons. At the bottom right, there is a "Reports" section with a small thumbnail map showing the current view area highlighted in red.

# Workflow: Editerbart lag

- ⦿ XFM projekt "Lokalplan"
  - Navn
  - Status:
    - Forslag
    - Godkendt
    - Aflyst
- ⦿ Oracle tabeller
  - MSCATALOG
  - STATUS
  - LOKALPLAN
  - USER\_SDO\_GEOM\_METADATA

# Oracle: MSCATALOG

- CREATE TABLE MSCATALOG (  
    TABLENAME        CHAR(32),  
    ENTITYNUM        NUMBER(38),  
    SCREENFORM       CHAR(64),  
    REPORTTABLE      CHAR(64),  
    SQLREVIEW        CHAR(240),  
    FENCEFILTER      CHAR(240),  
    DASTABLE          CHAR(32),  
    FORMTABLE        CHAR(64)  
)
  
- INSERT INTO MSCATALOG VALUES(  
    'LOKALPLAN',10,"","","",""  
)

# Oracle: STATUS

- CREATE TABLE STATUS (  
    NAVN    VARCHAR2(32) NOT NULL,  
    CONSTRAINT "STATUS\_PK" PRIMARY KEY ("NAVN")  
)
- INSERT INTO STATUS VALUES('Forslag')
- INSERT INTO STATUS VALUES('Vedtaget')
- INSERT INTO STATUS VALUES('Aflyst')

# Oracle: LOKALPLAN

- CREATE TABLE LOKALPLAN (  
    ID                NUMBER NOT NULL,  
    NAVN              VARCHAR2(32),  
    STATUS            VARCHAR2(32),  
    GEOMETRY          MDSYS.SDO\_GEOMETRY NOT NULL,  
    CONSTRAINT "LOKALPLAN\_PK" PRIMARY KEY ("ID"),  
    CONSTRAINT "STATUS\_FK" FOREIGN KEY("STATUS")  
        REFERENCES STATUS  
)
- CREATE SEQUENCE LOKALPLAN\_SEQ



# Oracle: USER\_SDO\_GEOM\_METADATA

- ◉ INSERT INTO USER\_SDO\_GEOM\_METADATA VALUES (  
    'LOKALPLAN',  
    'GEOMETRY',  
    MDSYS.SDO\_DIM\_ARRAY(  
        MDSYS.SDO\_DIM\_ELEMENT('X', 702000, 708000, 0.0005),  
        MDSYS.SDO\_DIM\_ELEMENT('Y', 6202000, 6206000, 0.0005)  
    ),  
    83032  
)
- ◉ CREATE INDEX LOKALPLAN\_IDX ON LOKALPLAN(GEOMETRY)  
INDEXTYPE IS MDSYS.SPATIAL\_INDEX PARAMETERS  
('layer\_gtype=POLYGON')