

# **Stop the printing of paper maps**

**QKEN Tallin 2018-12-05**

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**Lantmäteriet, the Mapping, Cadastral and Land Registration Authority**

# **Lantmäteriet has made a decision to stop printing maps**

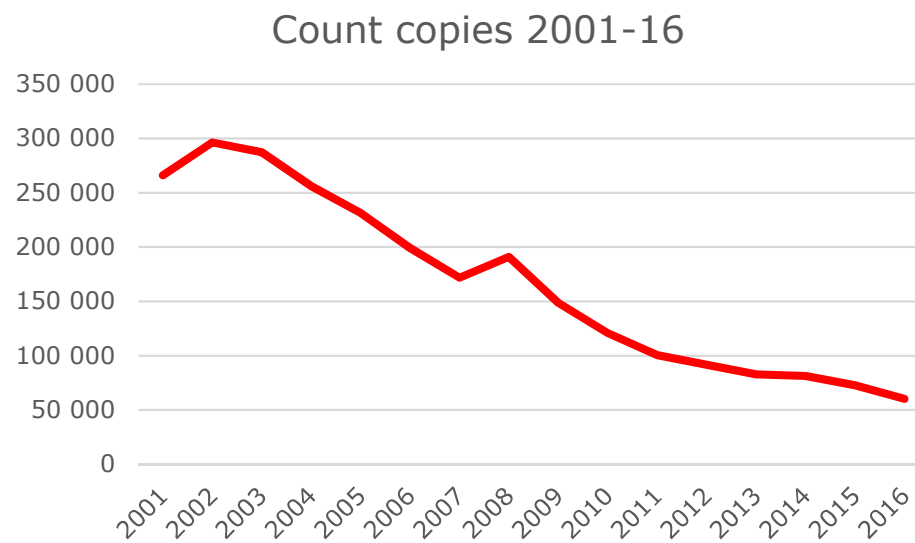
- Costs
- The digital map
  - Advantages
  - Disadvantages
- Alternative to printed maps by Lantmäteriet
- Exceptions when (we) still print maps

## In July we stopped to print maps

- From July 2018 Lantmäteriet has stopped to print paper maps.
  - All five series in the scales of 1:12 500 – 1:1 miljon.
- All raster products now presented with a common legend
  - Easier to use in digital solutions
  - Easier to learn and recognize the map symbols
  - The same map symbols in digital and printed maps

# Decreasing sales rate

Decreasing sales - 77 %



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# Digital services

- "Everyone" uses mobile technical platforms, not only professional user
- The position of everything has been "for everyday use"

Swedish statistic

One of the most digitized countries

- 95 % with age over 12 has internet at home
- 93 % has a computer
- 98 % has a cellphone
- 85 % has a smart phone

*Gefle Dagblad-Newspaper in Gävle 18-11-17*

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# Digital services

- A couple of themes in services
  - Historical maps
  - Areal and Satellite images
  - Elevation data
  - Place-names
  - Real property register (Addresses, Buildings, Real estate, Mortgage, Title Deeds, Plans and Regulation, Rights, Communities)
  - Cadastral Index Map
  - Topographic Base Maps
  - Topographic Web Map

# Digital maps

- More usable according to analysis
- Actuality - Up to dateness
- Refine



Well known webmap  
3 Dec 2018



New roads  
Changed names 31 Mars 2017

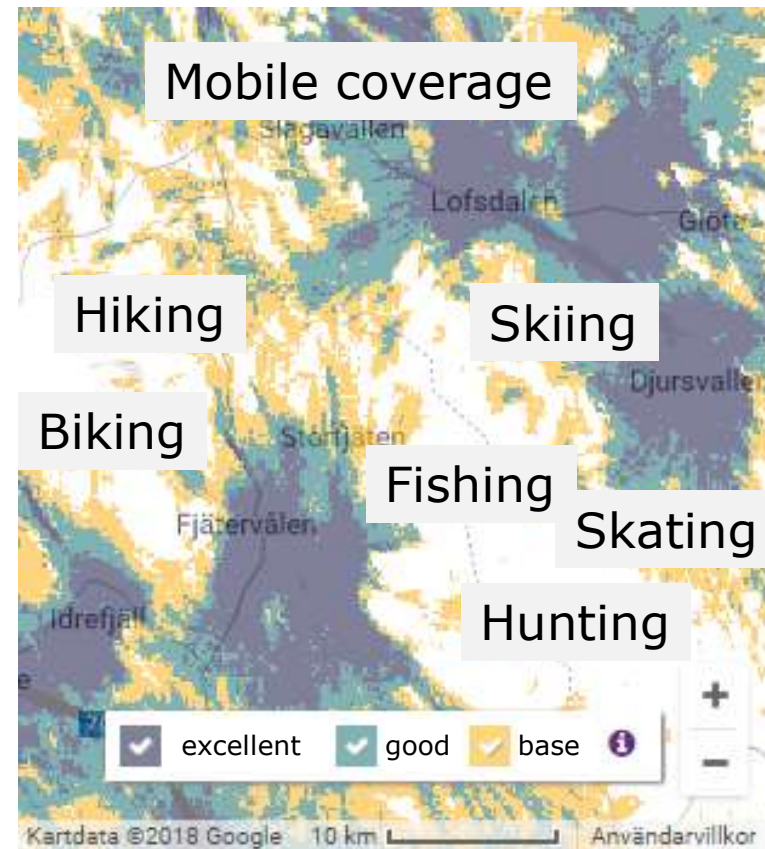
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## Digital maps

- Functionality in field  
Weather sensitive equipment
- Power dependence equipment
  - Protecting utilities
- Limited range
  - No coverage at all in part of the mountain region
  - Download

*Range map for a telecom company*  
*White area = No range*  
*Grey area = 4G*





# Viewer at lantmateriet.se

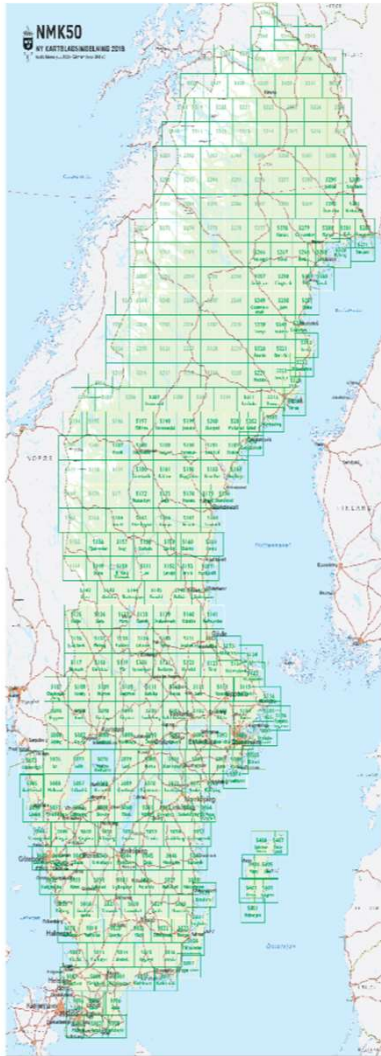
- A viewer gazetteer "MapSearch and Geographical Names"  
<https://kso.etjanster.lantmateriet.se/>
- Topographic Base Map
- Orthophoto
- Cadastral Index Map
- Historical orthophoto (New)



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# Exceptions

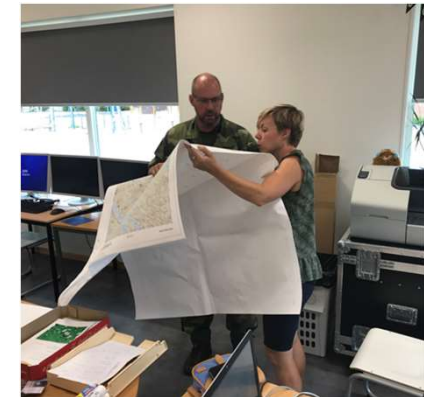


## National Military Map-series

- A unit at Lantmäteriet has a special commission to serve the Swedish Armed Forces with printed maps, both for operational planning as well as exercises.

In the situation of crisis there might be a military solution, *GeoCell*

- Used during summer 2018 to support fighting of several major forest fires in Sweden
- A school was used as command-and-control centre
- Maps was updated a couple of times a day
- Different mapsheets (1:50 000) printed in A3, duplicated in 700 copies a day



## Other exceptions

Lantmäteriet has digital sources for printing maps

- Overview maps
- Road map
- Mountain information, for hiking, skiing, snowmobile
- Topographical Base Map
- Cadastral Index Map

- Companies / dealers printing maps for users

The Map store: <https://www.kartbutiken.se/>

Printing all maps from 1:50 000

# Printing map, alternatives

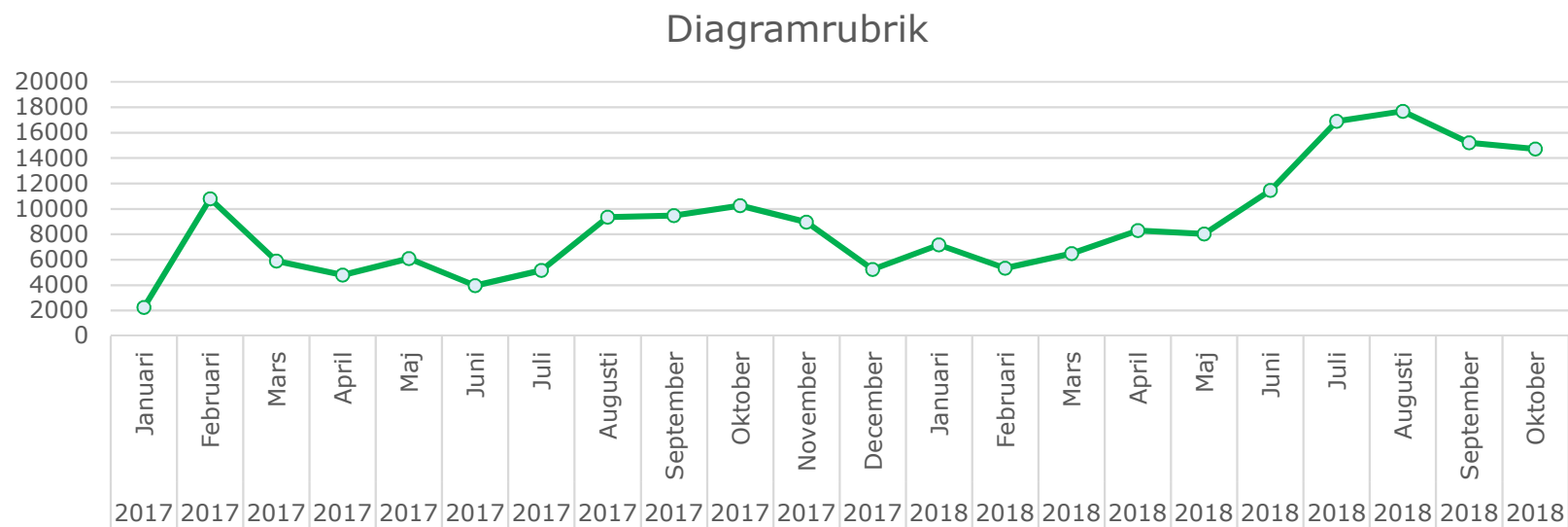
- Choose your own area for use at your printer,
- 1:10 000 / 1:50 000  
<https://kartutskrift.lantmateriet.se/>
- Print format A2, A3 and A4x9



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# Count visitors to "Map-print"



111 000 visitors January-October 2018

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# Printing map, alternatives



## Historical maps and archives

[https://historiskakartor.lantmateriet.se/arken/s/search.html?locale=en\\_US](https://historiskakartor.lantmateriet.se/arken/s/search.html?locale=en_US)

Sheet/File	Map Series/Measure	Year
Geographical Survey Archive		
<a href="#">Valbo J133-13H5d56</a>	Economic map (1935-1978)	1954
<a href="#">Gävle J243-98-1</a>	Topographic (ordnance survey) map (1827-1971)	1900
Land Survey Board Archive		
<a href="#">Valbo socken Alborga nr 1-7</a>	Delning av skog	1736
<a href="#">Valbo socken Alborga nr 1-7</a>	Gränsbestämning omkring	1736
<a href="#">Valbo socken Alborga nr 1-7</a>	Delning av hemägor	1754
Regional Archive		
<a href="#">21-VAL-22</a>	Delning	1739
<a href="#">21-VAL-48</a>	Delning	1755



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## Printed maps, alternatives

- Overview
  - Planning is important
  - Wheater resistant?
- 
- Don't even think about to do this with a lap-top
  - Film tajm <..\Bilder\NMK vs Strv122.wmv>
    - USB:<D:\QKEN Tallin\NMK vs Strv122.wmv>