UN Questionnaire:
91 answers received
until 29 May 2013
(not all country names are visible)
Scales of Nationally Produced Maps from Vendors

dark green 1:10,000, light green 1:25,000, yellow 1:50,000, brown 1:100,000,
red 1:250,000

Legend
- Rest
- Local maps highest scale available at Eastview
  - scale >= 1:10,000 (3)
  - 1:10,000 > scale >= 1:25,000 (15)
  - 1:25,000 > scale >= 1:50,000 (35)
  - 1:50,000 > scale >= 1:100,000 (5)
  - 1:100,000 > scale >= 1:250,000 (4)
Scales of US produced Military Maps from Vendors

- green 1:10 000
- yellow 1:50 000
- brown 1:100 000
- red 1:250 000

Legend:
- Rest
- USA maps highest scale available at eastview
  - scale >= 1:10,000 (1)
  - 1:10,000 > scale >= 1:25,000 (3)
  - 1:25,000 > scale >= 1:50,000 (6)
  - 1:50,000 > scale >= 1:100,000 (93)
  - 1:100,000 > scale >= 1:250,000 (13)
Scales of Russian Produced Military Maps from Vendors
.green 1:25 000, yellow 1:50 000, brown 1:100 000, red 1:250 000

Legend
Rest
Russia maps highest scale available at eastview
scale >= 1:10.000 (1)
1:10.000 > scale >= 1:25.000 (13)
1:25.000 > scale >= 1:50.000 (33)
1:50.000 > scale >= 1:100.000 (43)
1:100.000 > scale >= 1:250.000 (26)
Question 2: Map age combined from Questionnaires and from Vendors
dark green < 10 yrs, light green < 20 yrs, orange < 30 yrs, red > 30 yrs, grey age not given
Question 3: Map restrictions

- Without restrictions (65)
- Maps are restricted (21)
- Not answered (5)

Scale 1:130,000,000
Question 5: Revision

- Complete (28)
- Feature based (30)
- Both (18)
- Neither (15)
- Rest
Question 6: Method of data revision

- Field surveys / Aerial photography / Satellite imagery (33)
- Field surveys / Aerial photography (23)
- Field surveys / Satellite imagery (9)
- Field surveys (3)
- Aerial photography / Satellite imagery (7)
- Aerial photography (7)
- Satellite imagery (2)
- Neither (7)
- Rest
Question 7: Mapping and data updating

- In-house (50)
- Outsourcing (12)
- Both (26)
- Not answered (3)
- Rest
Question 8: Use of photogrammetry

- Digital (49)
- Analogue (11)
- Both (24)
- None / not answered (7)
- Rest
Question 8: Domestic capabilities

- Yes, using digital (32)
- Yes, using analogue (6)
- Yes, using both (13)
- No, using photogrammetry (30)
- No, not using photogrammetry (4)
- Not answered but photogrammetry (3)
- Not answered (3)

Legend:
- Green: Yes, using digital (32)
- Orange: Yes, using analogue (6)
- Pink: Yes, using both (13)
- Light Green: No, using photogrammetry (30)
- Purple: No, not using photogrammetry (4)
- Blue: Not answered but photogrammetry (3)
- Yellow: Not answered (3)
- Rest: Other
Question 12: Production of orthophotos

Yes (80)
No (6)
Not answered (5)
Rest
Question 13: National DEM available

- Yes (64)
- No (23)
- Not answered (4)
- Rest
Question 14: Interested in 3D products

- Yes (43)
- No (41)
- Not answered (6)

Map showing the distribution of responses across different countries.
Question 15: Licensed surveyors

Yes (72)
No (15)
Not answered (4)
Rest
Question 16: National coverage of cadastre

- Yes (58)
- No (27)
- Not answered (6)
- Rest
Question 16: NMA responsible for cadastre

- Yes (42)
- No (45)
- Not answered (4)
- Rest
Question 18: Geodetic control of cadastre

- Yes (74)
- No (8)
- Not answered (9)
- Rest
Question 19: Boundaries monumented

- Yes (61)
- No (20)
- Not answered (10)
- Rest
Question 22: Government funding

Yes (78)
No (6)
Not answered (7)
Rest
Question 25: Regulatory or inst. arrangements

- Yes (79)
- No (5)
- Not answered (7)
- Rest
Question 27: Servers for archival of nat. datasets

- Yes (37)
- Other method (39)
- Nothing selected (15)
- Rest
Map scales used
(91 samples)

- I - 1:1,000 or greater: 33%
- II - 1:5,000: 52%
- III - 1:25,000: 62%
- IV - 1:50,000: 51%
- V - 1:100,000: 53%
- VI - 1:250,000: 80%
- VII - 1:500,000: 93%
- VIII - 1:1 million or smaller: 65%
Availability of data
(91 Samples)

- **Restricted**: 71% yes, 23% no, 5% not answered
- **Sold**: 84% yes, 11% no, 5% not answered
- **Free of charge**: 76% yes, 15% no, 9% not answered
Mapping and Update
(91 Samples)

Map update:
- update maps: 84%
- complete update: 51%
- mapping of changed features: 33%
- do not have updates: 16%

Methodology:
- field surveys: 77%
- aerial photography: 75%
- photogrammetry: 74%
- satellite images: 56%
- third party surveys: 52%
- crowd sourcing: 13%

NMA’s mapping:
- in-house: 84%
- outsourcing: 42%
- both: 29%
- outsourcing only: 13%
National Aerial and Satellite Imaging Programs

(91 Samples)

- National Aerial Photography Programme
- Domestic Capabilities for Aerial Photography
- Regular intervals for Aerial Photography
- Analogue Aerial Photography
- Digital Aerial Photography
- Both Analogue and Digital
- National Satellite Imaging Programme
- Domestic Capabilities for Satellite Imaging
- Regular intervals for Satellite Imaging
- On Demand Acquisition
Property Cadastre
(91 Samples)
NMA's Status, Map Products and Method of Archival

*(91 Samples)*

NMA's status:
- nationally funded: 86%
- have legal status: 87%

Products:
- hard copy maps: 93%
- digital media: 92%
- downloads: 53%
- web: 44%
- 3D-Models: 48%

Method of archival:
- database/server: 54%
- DVD's: 41%
- hard copy: 44%
Europe: Map scales used
(37 Samples)

- I - 1 : 1 000 or greater: 38%
- II - 1: 5000: 65%
- III - 1: 25 000: 73%
- IV - 1: 50 000: 92%
- V - 1:100 000: 62%
- VI - 1:250 000: 84%
- VII - 1:500 000: 57%
- VIII - 1: 1 million or smaller: 68%

Africa: Map scales used
(20 Samples)

- I - 1 : 1 000 or greater: 30%
- II - 1: 5000: 30%
- III - 1: 25 000: 35%
- IV - 1: 50 000: 40%
- V - 1:100 000: 50%
- VI - 1:250 000: 70%
- VII - 1:500 000: 65%
- VIII - 1: 1 million or smaller: 95%
Africa: National Aerial and Satellite Imaging Programs
(20 Samples)

- National Aerial Photography Programme
- Domestic Capabilities for Aerial Photography
- Regular intervals for Aerial Photography
- Analogue Aerial Photography
- Digital Aerial Photography
- Both Analogue and Digital

- National Satellite Imaging Programme
- Domestic Capabilities for Satellite Imaging
- Regular intervals for Satellite Imaging
- On Demand Acquisition

Europe: National Aerial and Satellite Imaging Programs
(37 Samples)

- National Aerial Photography Programme
- Domestic Capabilities for Aerial Photography
- Regular intervals for Aerial Photography
- Analogue Aerial Photography
- Digital Aerial Photography
- Both Analogue and Digital

- National Satellite Imaging Programme
- Domestic Capabilities for Satellite Imaging
- Regular intervals for Satellite Imaging
- On Demand Acquisition
Europe: Property Cadastre
(37 Samples)

- Licensed surveyers: 81%
- National cadastre coverage: 78%
- NMA responsibility: 81%
- Based geodetic control: 51%
- Boundary monumentation: 70%
- Update by transaction: 81%

The Americas: Property Cadastre
(15 Samples)

- Licensed surveyers: 87%
- National cadastre coverage: 80%
- NMA responsibility: 40%
- Based geodetic control: 27%
- Boundary monumentation: 20%
- Update by transaction: 60%
WHERE is Ground Truth? Google Maps?

- "Video rental" model
- Ground Truth sourced
- Map Maker sourced
WHERE Is Ground Truth?

43 countries and regions, launched over past 5 years!
Global Coverage Statistics

Australia Q3/11

% Population Covered
100%

% Address Ranges
100%

Kms Covered
1,176,304

Points of Interest
170,208

Traffic Information (Yes/No)
Yes

NAVTEQ Confidential and Proprietary
Global Coverage Statistics

Brazil Q3/11

% Population Covered
86%

% Address Ranges
86%

Kms Covered
1,150,077

Points of Interest
259,672

Traffic Information (Yes/No)
Yes

Go Back
Global Coverage Statistics

China

% Population Covered
93.78%

% Address Ranges
-

Kms Covered
2,540,000

Points of Interest
4,930,000

Traffic Information (Yes/No)
-

NAVTEQ Confidential and Proprietary
Global Coverage Statistics

Germany Q3/11

% Population Covered
100%

% Address Ranges
100%

Kms Covered
1,105,890

Points of Interest
541,602

Traffic Information (Yes/No)
Yes

NAVTEQ Confidential and Proprietary
Global Coverage Statistics

India Q3/11

% Population Covered
100%

% Address Ranges
-

Kms Covered
1,190,623

Points of Interest
2,130,409

Traffic Information (Yes/No)
No

NAVTEQ Confidential and Proprietary
Global Coverage Statistics

Kenya Q3/11

% Population Covered
7%

% Address Ranges
-

Kms Covered
59,888

Points of Interest
15,514

Traffic Information
(Yes/No)
-

NAVTEQ Confidential and Proprietary
Global Coverage Statistics

USA Q3/11

- % Population Covered: 100%
- % Address Ranges: 100%
- Kms Covered: 8,810,136
- Points of Interest: 2,187,469
- Traffic Information (Yes/No): Yes
Global Coverage Statistics

<table>
<thead>
<tr>
<th>Category</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Population Covered</td>
<td>71%</td>
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<tr>
<td>% Address Ranges</td>
<td>53%</td>
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<tr>
<td>Kms Covered</td>
<td>2,177,103</td>
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<td>Points of Interest</td>
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<td>Traffic Information</td>
<td>Yes</td>
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</table>

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