

Maps in Business Intelligence – Dashboards reloaded

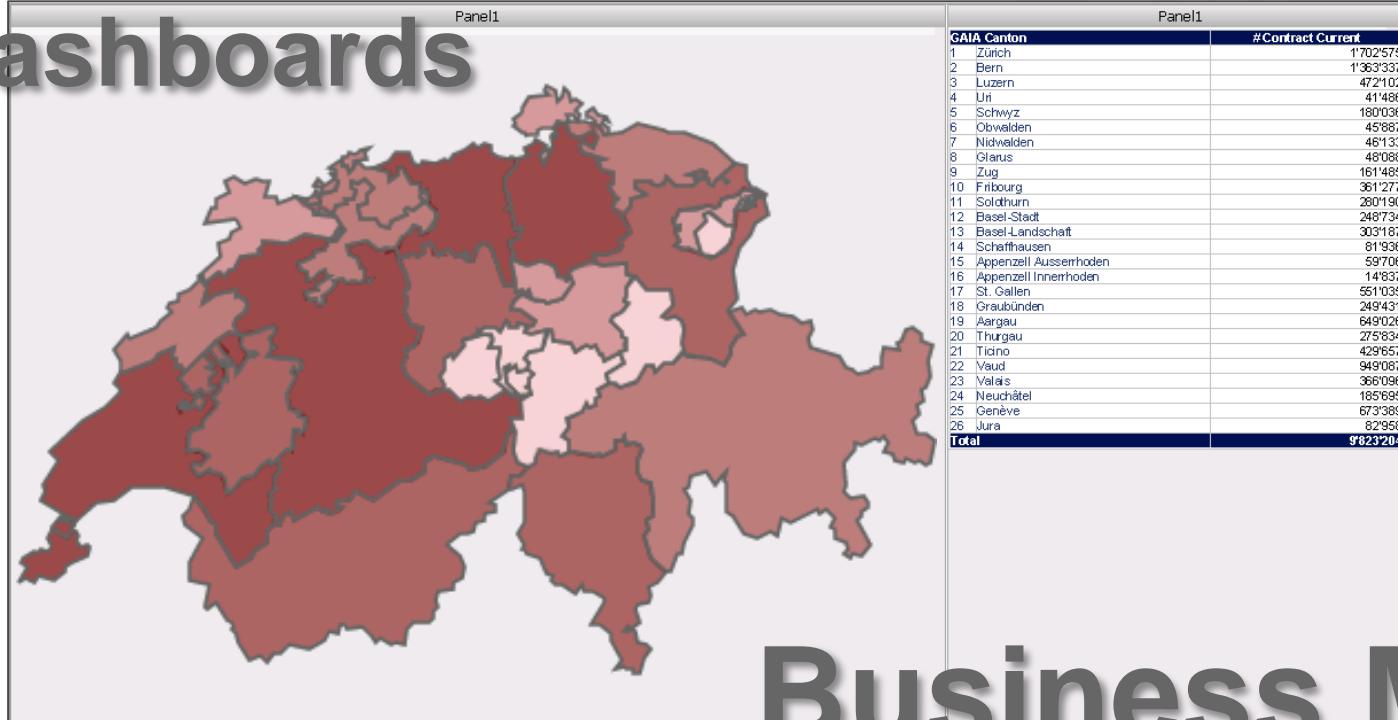
GeoBeer #8

Christoph Kiefer | Tobias Brühlmeier



Unternehmens-Reporting

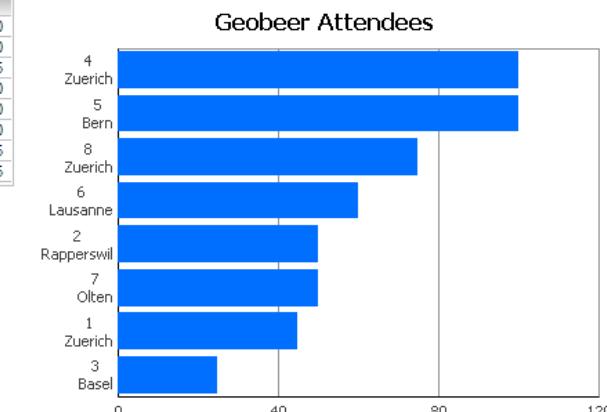
Dashboards





Extremely Simple Geobear Statistics Dashboard -- Cheers!

ID	Sponsor	City	Date	Latitude	Longitude	Num Attendees
4	Esri Schweiz AG	Zuerich	2013-09-25	47.387374	8.52243	100
5	Geosharing Workshop	Bern	2013-10-31	46.947514	7.437013	100
8	Crosswind	Zuerich	2014-09-10	47.390181	8.492737	75
6	INSEER	Lausanne	2014-03-20	46.51716	6.629607	60
2	Hochschule Rapperswil	Rapperswil	2013-06-13	47.223519	8.817275	50
7	geOps	Olten	2014-05-06	47.352304	7.907774	50
1	Ernst Basler + Partner	Zuerich	2013-03-06	47.366621	8.550056	45
3	FHNW	Basel	2013-07-03	47.558607	7.58779	25

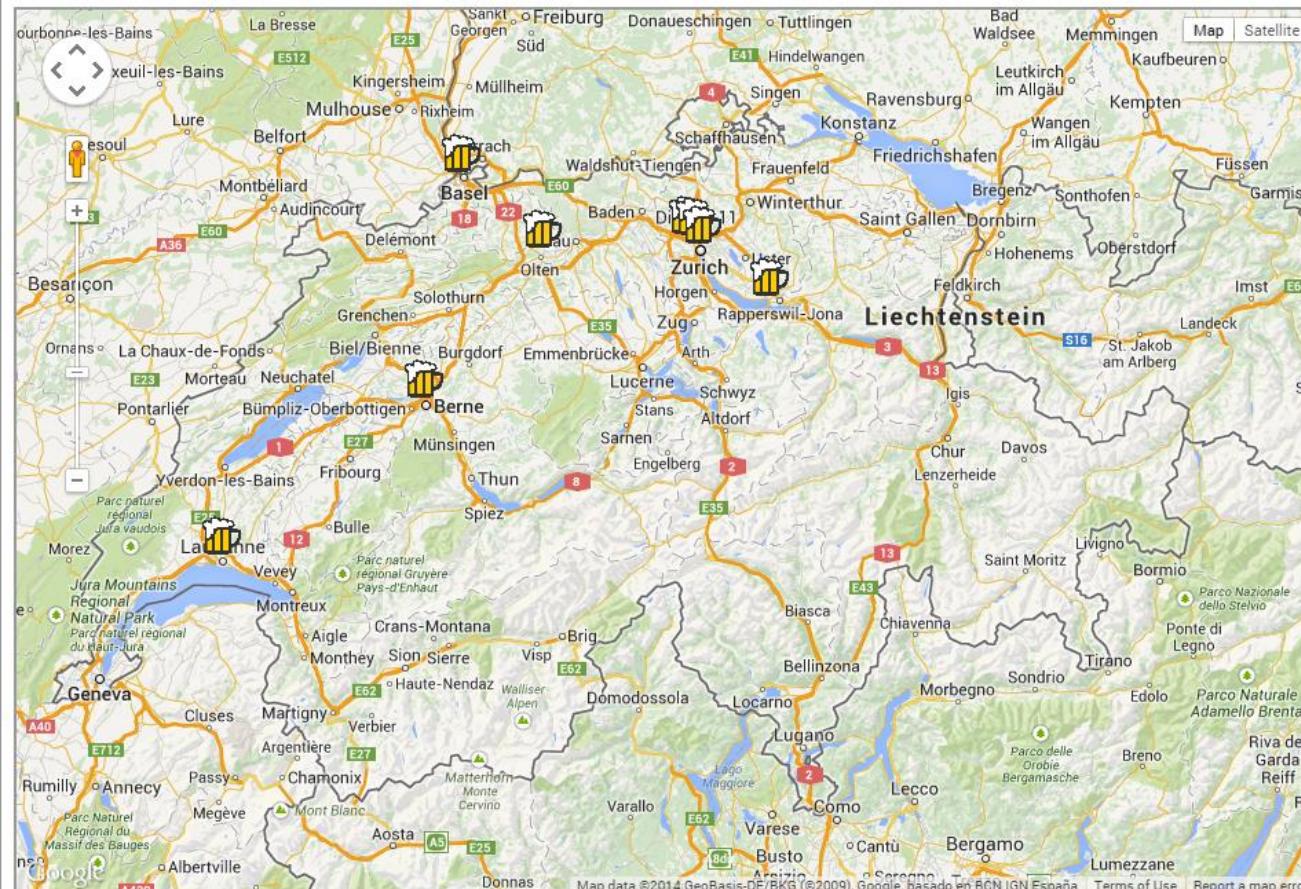


ID	City	Geobear Attendees
4	Zuerich	100
5	Bern	100
8	Zuerich	75
6	Lausanne	60
2	Rapperswil	50
7	Olten	50
1	Zuerich	45
3	Basel	25

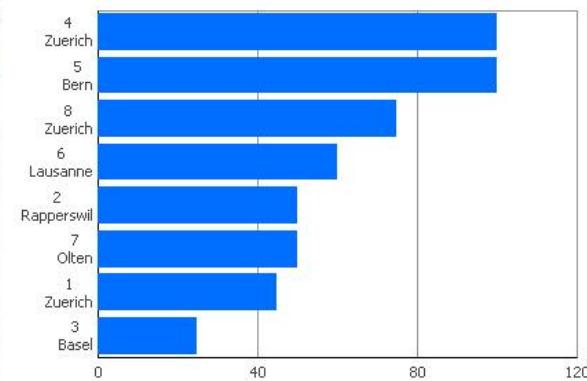


100%

Extremely Simple Geobear Statistics Dashboard -- Cheers!



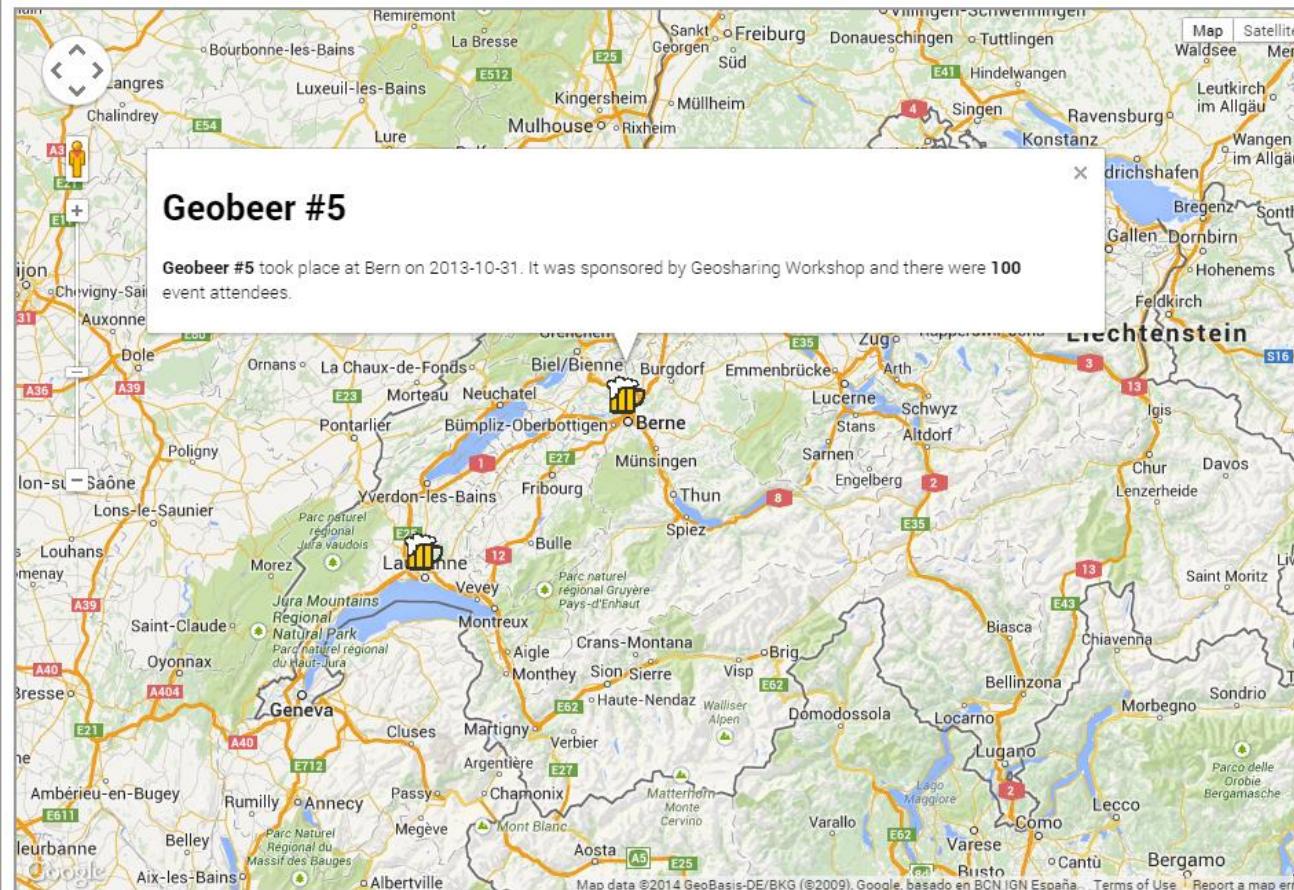
Geobear Attendees



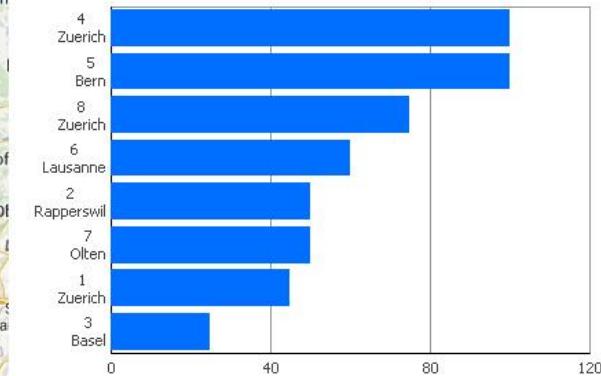
Id	City	Geobear Attendees	
		Count	Order
4	Zuerich	100	1
5	Bern	100	2
8	Zuerich	75	3
6	Lausanne	60	4
2	Rapperswil	50	5
7	Olten	50	6
1	Zuerich	45	7
3	Basel	25	8



Extremely Simple Geobear Statistics Dashboard -- Cheers!



Geobear Attendees



Id	City	Geobear Attendees	
		Count	Total
4	Zuerich	100	100
5	Bern	100	100
8	Zuerich	75	75
6	Lausanne	60	60
2	Rapperswil	50	50
7	Olten	50	50
1	Zuerich	45	45
3	Basel	25	25

DemoAjaxVizT22.java GoogleMapsCode DemoLayoutGoogle2.xml

```
50 // Loop through every row of the XML
51 for (int i = 0; i < n.getLength(); i++) {
52     Element row = (Element) n.item(i);
53     NodeList rowCell = row.getChildNodes();
54     Element childLine = null;
55
56     // Id, Sponsor, City, Date, Latitude, Longitude, Attendees
57     String Nr = "nodata";
58     String Sponsor = "nodata";
59     String City = "nodata";
60     String Date = "nodata";
61     String Latitude = "nodata";
62     String Longitude = "nodata";
63     String Attendees = "nodata";
64
65     for (int c = 0; c < rowCell.getLength(); c++) {
66         childLine = (Element) rowCell.item(c);
67         if (c == 0) {
68             Nr = getCharacterDataFromElement(childLine);
69         }
70         if (c == 1) {
71             Sponsor = getCharacterDataFromElement(childLine);
72         }
73         if (c == 2) {
74             City = getCharacterDataFromElement(childLine);
75         }
76         if (c == 3) {
77             Date = getCharacterDataFromElement(childLine);
78         }
79         if (c == 4) {
80             Latitude = getCharacterDataFromElement(childLine);
81         }
82         if (c == 5) {
83             Longitude = getCharacterDataFromElement(childLine);
84         }
85         if (c == 6) {
86             Attendees = getCharacterDataFromElement(childLine);
87         }
88     }
89
90     result = result + " { nr: '" + Nr + "' , sponsor: '" + Sponsor
91         + "' , city: '" + City + "' , date: '" + Date + "' "
92         + " , position: new google.maps.LatLng(" + Latitude + ", "
93         + Longitude + ")" + " , attendees: '" + Attendees + "' } , ";
94 }
```

DemoAjaxVizT22.java GoogleMapsCode DemoLayoutGoogle2.xml

```
1 var locations = [ { id:0,
2     nr: '1',
3     sponsor: 'Ernst Basler + Partner',
4     location: 'Zürich',
5     date: '2013-03-06',
6     position: new google.maps.LatLng(47.366621, 8.550056),
7     attendees: '45' }
8
9     { id:1,
10        nr: '2',
11        sponsor: 'Hochschule Rapperswil',
12        location: 'Rapperswil',
13        date: '2013-06-13',
14        position: new google.maps.LatLng(47.223519, 8.817275),
15        attendees: 50 }
16
17     ...
18
19     { id:7,
20        nr: '8',
21        sponsor: 'Crosswind',
22        location: 'Zürich',
23        date: '2014-09-10',
24        position: new google.maps.LatLng(47.366621, 8.550056),
25        attendees: 75
26    } ]
```

```
<!DOCTYPE mstrlayout:layout SYSTEM "mstrlayout.dtd">
<mstrlayout:layout>
<![CDATA[
<html>
  <head>
    <meta name="viewport" content="initial-scale=1.0, user-scalable=no">
    <meta charset="utf-8">
    <title>Info windows</title>
    <style>
      html, body, #map-canvas {
        height: 100%;
        margin: 0px;
        padding: 0px
      }
    </style>
    <script src="https://maps.googleapis.com/maps/api/js?v=3.exp"></script>
    <script src="http://code.jquery.com/jquery-1.9.1.js"></script>
    <script>
      ]]>
<mstrlayout:render name="visualization" />
<![CDATA[
function initialize() {

  var mapOptions = {
    disableDoubleClickZoom: true,
    zoom: 8,
    center: new google.maps.LatLng(46.819767, 8.409992),
    // ROADMAP, SATELLITE, HYBRID, TERRAIN
    mapTypeId: google.maps.MapTypeId.ROADMAP
};

  var map = new google.maps.Map(document.getElementById('map-canvas'), mapOptions);
}
```

```
$_.each(locations, function(index, value) {  
  
var contentString = '<div id="content">'  
+ '<div id="siteNotice">'  
+ '</div>'  
+ '<h1 id="firstHeading" class="firstHeading">'  
+ 'Geobear #' + value.nr + '</h1>'  
+ '<div id="bodyContent">'  
+ '<p><b>'  
+ 'Geobear #' + value.nr  
+ '</b>'  
+ ' took place at '  
+ value.city  
+ ' on '  
+ value.date  
+ '.'  
+ ' It was sponsored by '  
+ value.sponsor  
+ ' and there were '  
+ '<b>' + value.attendees + '</b>'  
+ ' event attendees.'  
+ '</p>'  
+ '</div>' + '</div>';
```

```
var infowindow = new google.maps.InfoWindow({  
content : contentString  
});
```

```
var marker = new google.maps.Marker({  
position : value.position,  
map : map,  
title : value.city,  
icon: myIcon  
}).
```

Highspeed-Raster compression without loss

Luzius Ammann, Intergraph (Schweiz) AG

Why compression?

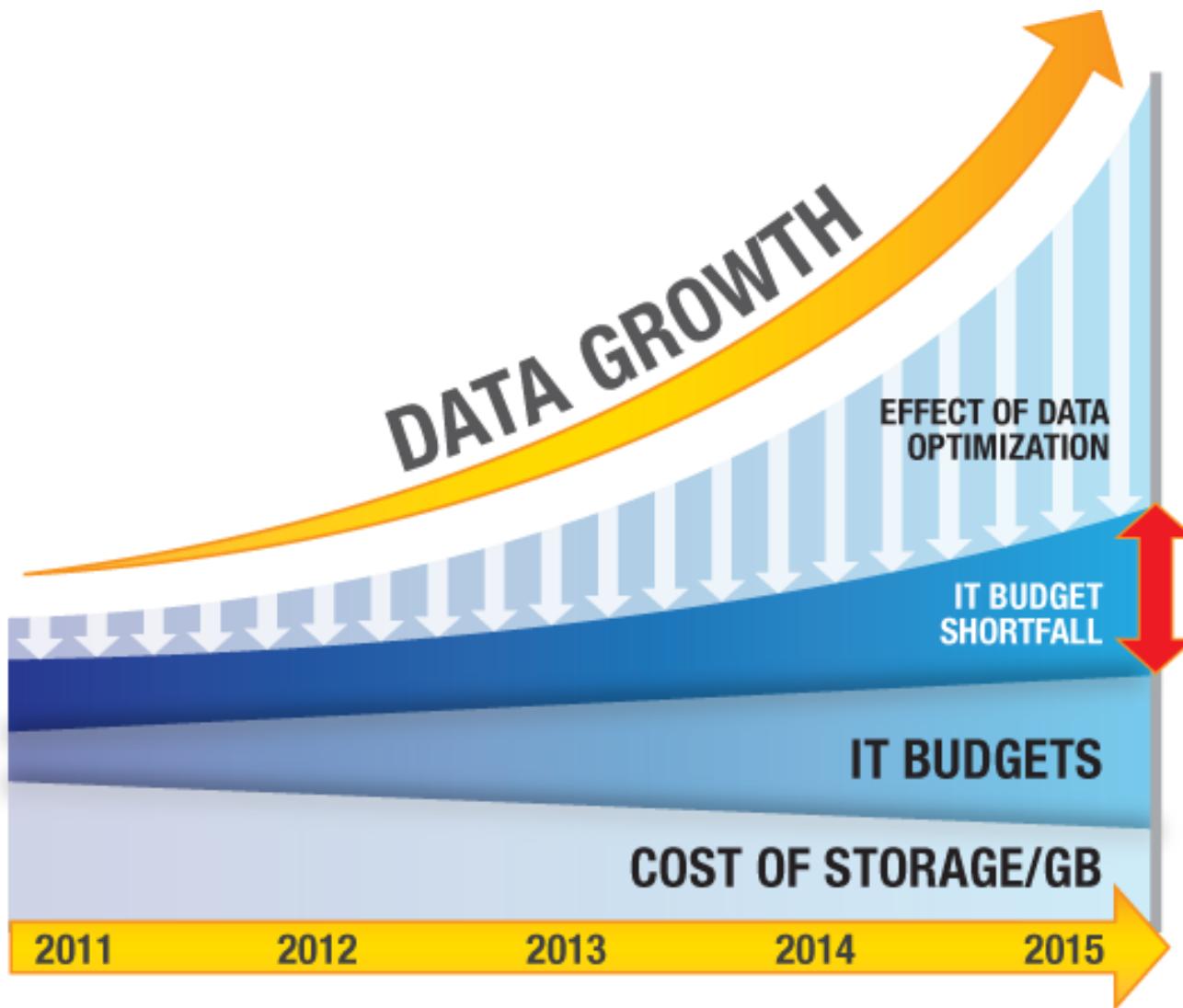
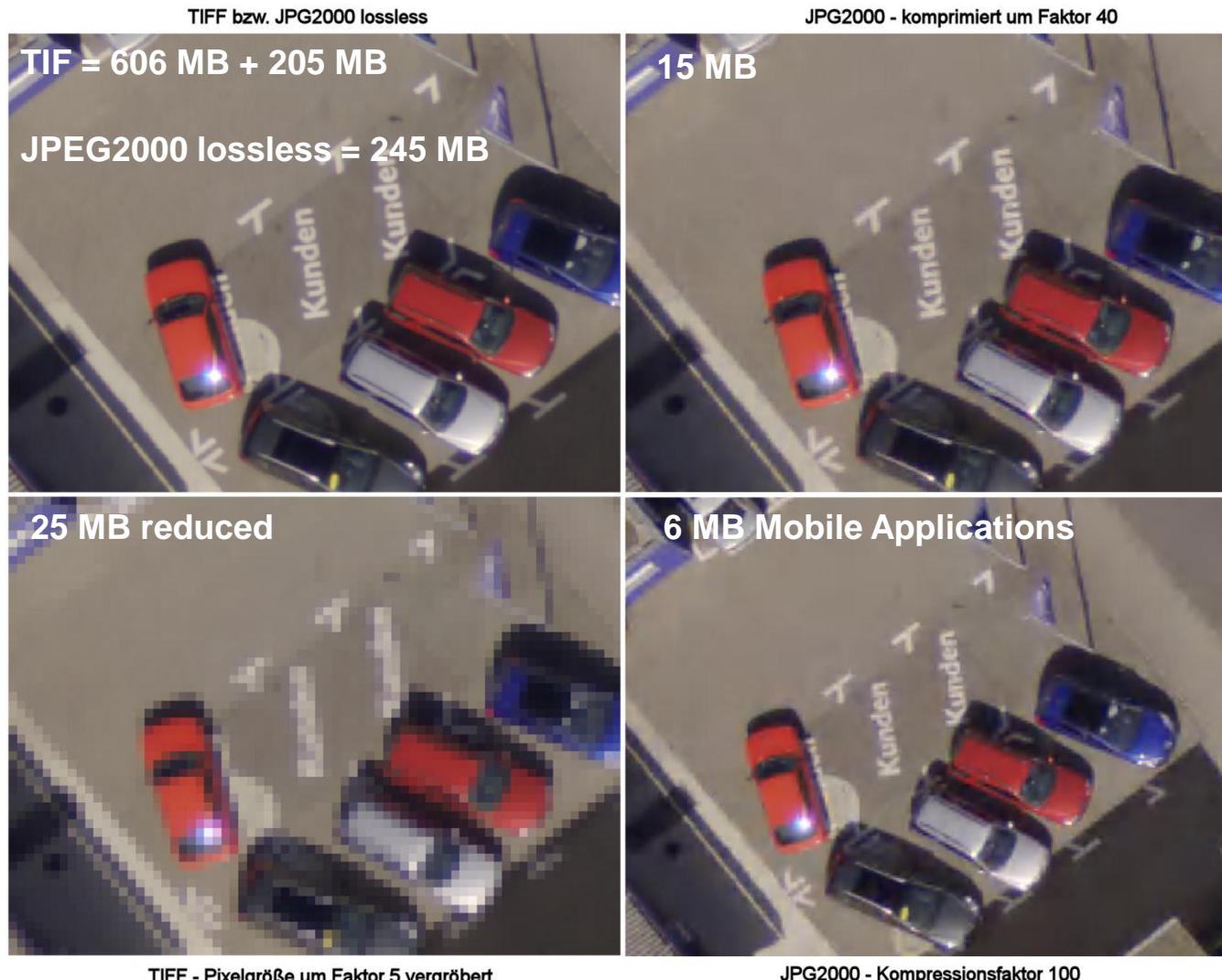
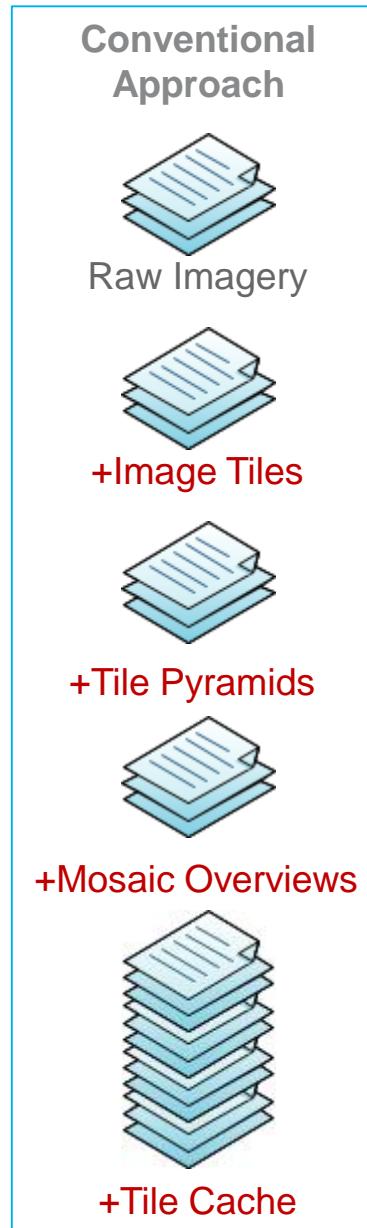
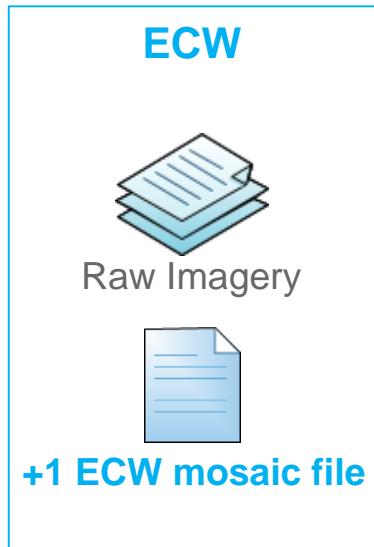


Diagram courtesy: Permabit Blog, 2011

Compression with(out) loss



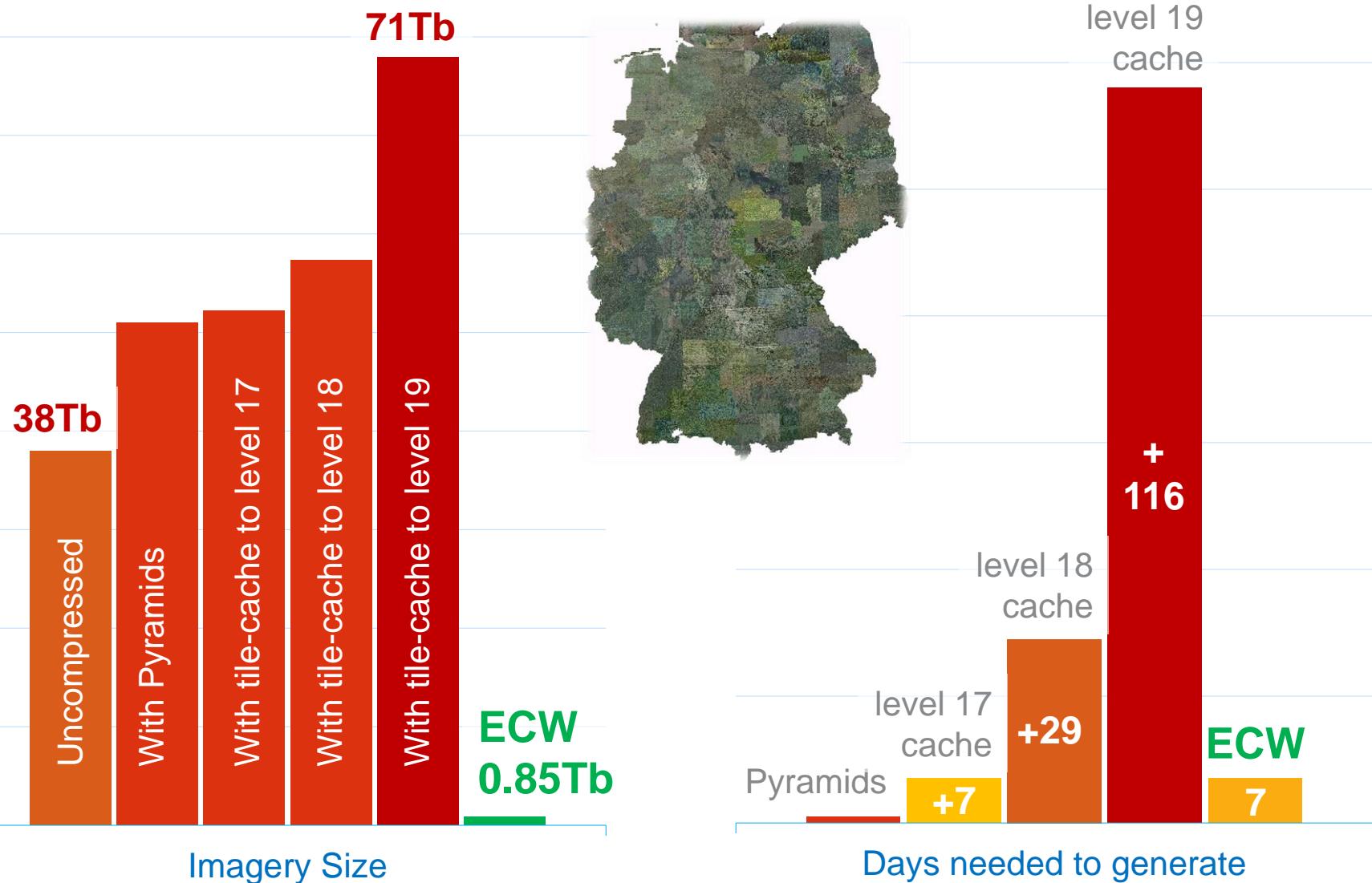
- Leading technology
 - Lossless or lossy compression
 - Highest compression with good quality
 - No additional pyramids needed
 - Enables data-streaming
-
- Base for Enhanced Compressed Wavelet (ECW) and JPEG2000



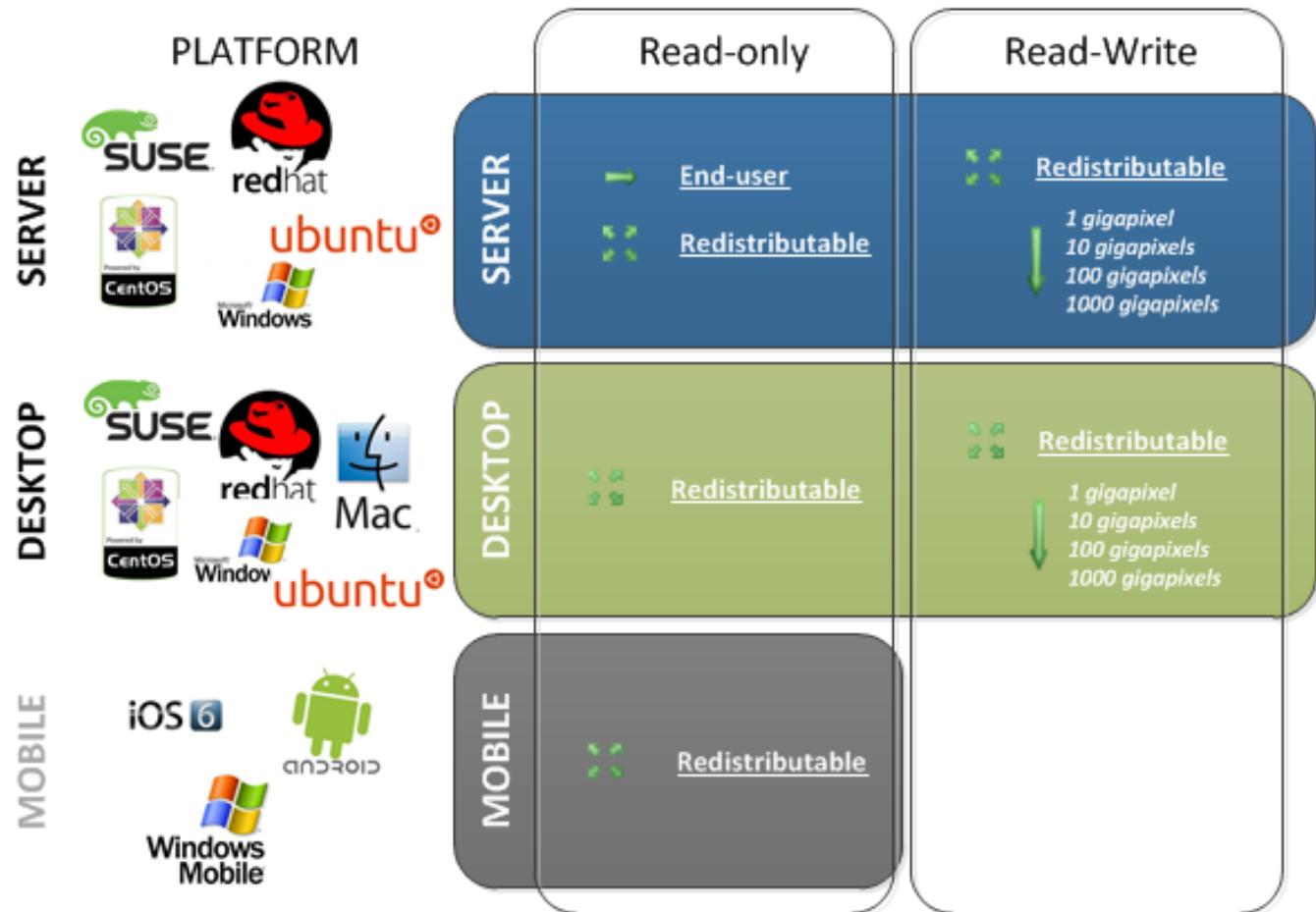
Efficient processing and simple data structure:

- Easier to manage
- Time effective
- Provides a single source of truth
- One format to serve all software clients.

Tile cache – Worked example (Storage)



- Free desktop read-only licences
- No royalties







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SMARTER DECISIONS