

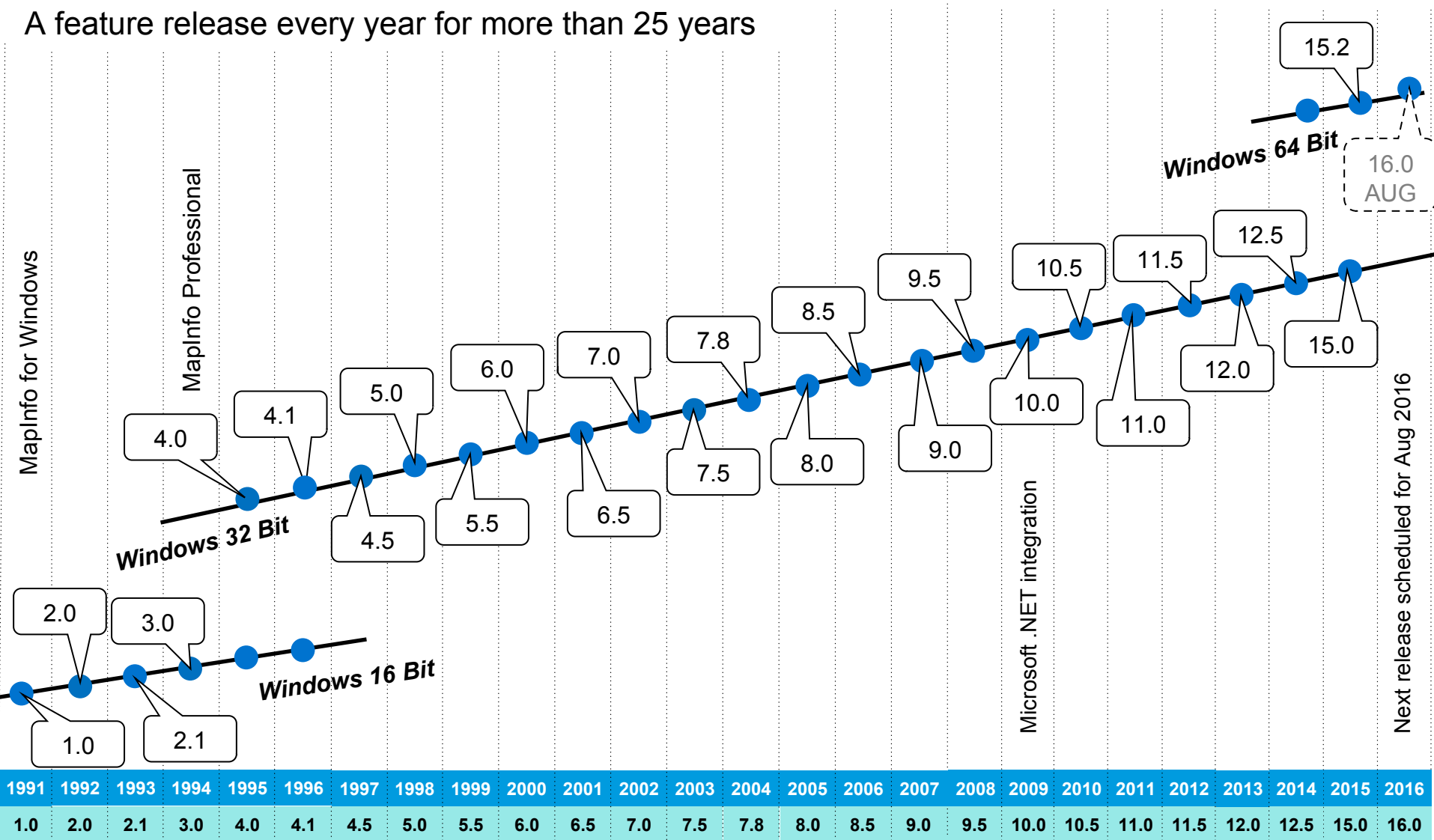
# MapInfo Professional Evolution!

A long history of improvement

This presentation covers what is new in all of the MapInfo Pro releases since v9.0!

# MapInfo Pro Release History

A feature release every year for more than 25 years



## MapInfo Pro version 9.0 added

Universal translator – support for

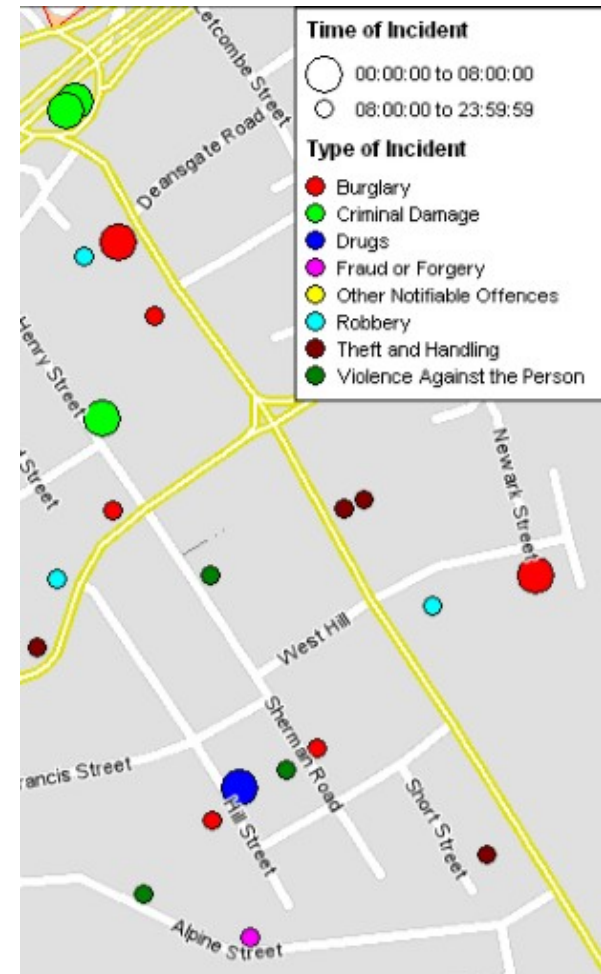
- AutoCAD DWG/DXF
- ArcSDE, Geodatabase (MDB)
- MicroStation Design
- Spatial Data Transfer Standard (SDTS)
- Vector Product Format Coverage (VPF)

Time based analysis - Support for Date/time and Time data formats

Civil contingency fonts added

Secure WMS and WFS connections via HTTPS

MapBasic now free (prior to v9.0, the MapBasic development environment was an added cost)



## MapInfo Pro version 9.5 added

Improved map display - support for translucency and anti-aliasing

MapCAD – comprehensive “CAD like” data creation and editing tools

WFS-T (Web Feature Service with Transaction support)

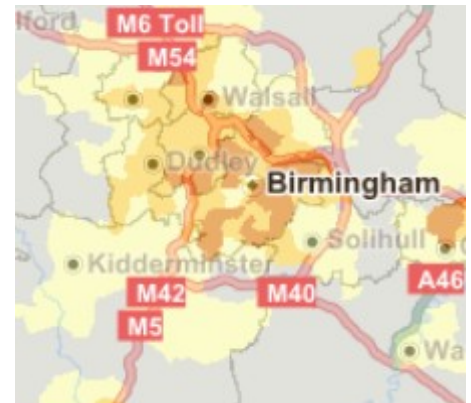
Improved installation and activation

- Workgroup installations
- Support for proxy server based networks
- Silent installation and activation



















Improved labelling

Object processing performance improvements –  
Combine and Buffering

RDBMS performance improvements – progressive  
cache and more



# MapInfo Pro version 9.5: Introduced the MapCAD Toolbox

Copy Object to stamp		Paste object from stamp
Replace object from stamp		Copy style
Paste Style		Select Objects By Style
Calculate Angle		Create Parallel
Split Region		Calculate Direction
Snap to Lines		Settings for Snap to Lines
Add Nodes		Mirror Horizontally
Mirror Vertically		Create Line / Polyline
Move		Rotate
Measurement		Align Horizontally
Align Vertically		Line Intersection
Fillet/Chamfer		Intersect Arcs
Polar Append		Right Angle
Perpendicular		Text in Table
Circle from three points		Arc from three points
Create lines from database		Create polylines from database
Circle from Center and R or D		Settings
Help		Exit MapCAD

## MapInfo Pro version 10.0 added

Support for Access and Excel 2007 data formats

Support for SQL Server 2008, PostgreSQL and PostGIS

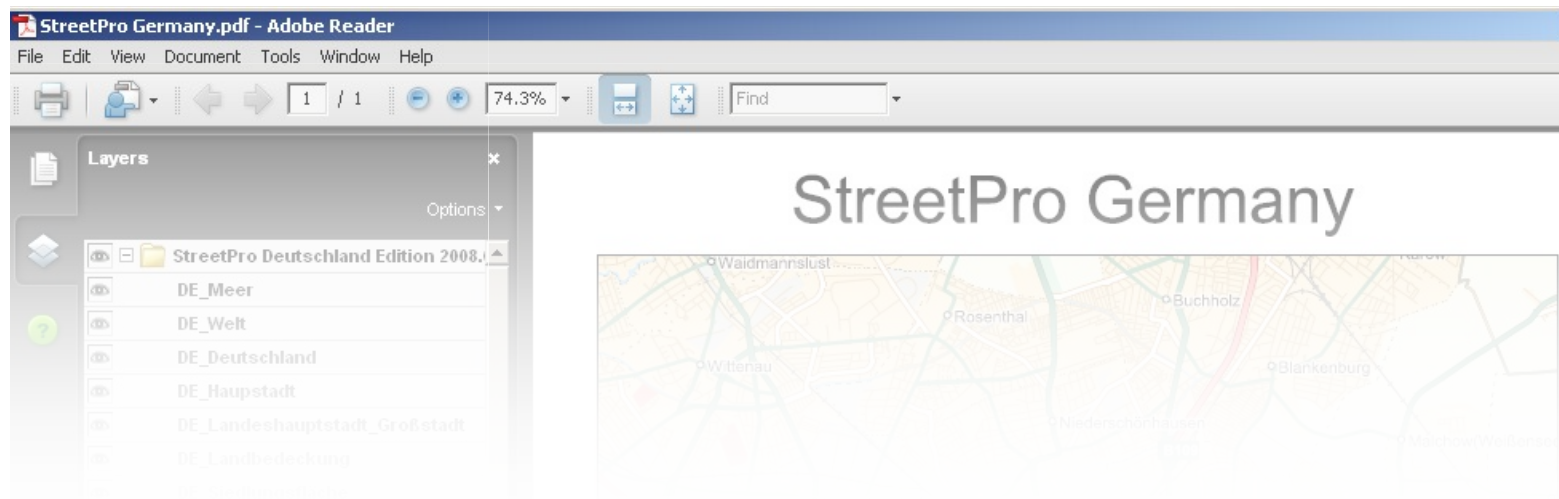
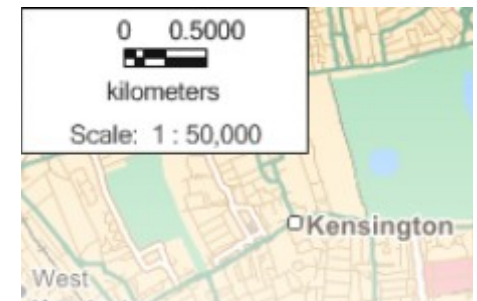
New interactive scale bars

More modern menu and toolbars

All new interactive Layer Control window

Object processing performance improvements  
(erase and split)

Produced Layered PDF





## MapInfo Pro version 10.5 added

Search metadata catalogs (CSW Support)

Direct open of Google KML format

Microsoft Bing maps support (Bing aerial and hybrid)

Support for the Microsoft Excel and Access 2010 formats

Multiple style overrides makes layer control less cluttered and easier to navigate

Improved user interface

- New toolbars, icons and cursors
- More dockable windows – including new Table List window

Produce layered and/or geo-registered PDF maps.

- Include attribute data in PDF.

Performance improvements with RDBMS



Bing hybrid map



Forbidden city, Beijing  
(Bing aerial map)

## MapInfo Pro version 11.0 added

All new Browser window – easy sorting, multi-line support, rich keyboard control, improved output and much more.

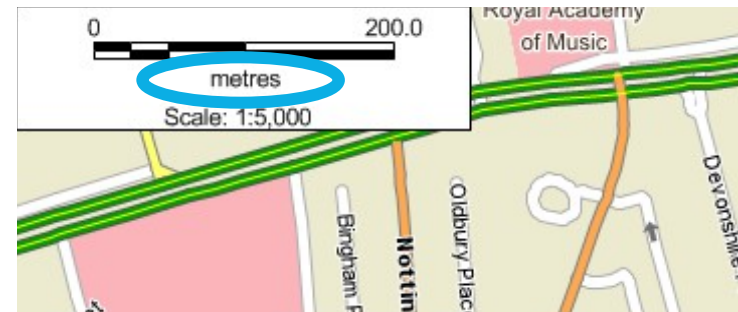
Choice of British or American English for distance units when creating output.

Increased use of memory when running on a 64 bit operating system (note this is not a 64 bit version – see v12.5 and later).

MWS format workspace support - create maps for MapXtreme and Spectrum.

MapInfo Pro Premium Services introduced

- Access to Bing roads and a look up (move map to) feature.





# Improvements in v10.0, v10.5 and v11.0

The screenshot displays the MapInfo Professional v10.5 interface. The main map area shows a color-coded map of UK Postal Districts by Population Density. Several callout boxes highlight specific improvements:

- Improved menus and toolbars - v10.5**: Points to the top toolbar and menu bar.
- Quickly zoom maps to any location - v11.0\***: Points to the 'Move Map To' window on the right.
- Access background street mapping with the click of a button - v11.0\***: Points to the 'Background Li' checkbox in the Layer Control window on the left.
- New Layer control - v10.0**: Points to the Layer Control window on the left.
- Table List window - v10.5**: Points to the Table List window on the right.
- All new Browser window -**: Points to the 'Postdist Browser' and 'GB\_City\_Major\_Town Browser' windows at the bottom.

The 'Postdist Browser' window displays the following data:

Area_Name	Population	Car_Owners
AB10	18,853	6,071
AB11		
AB12	25,479	7,436
AB13	2,457	978
AB14	5,064	1,817
AB15	33,065	11,529
AB16	31,635	6,932
AB21	19,789	6,129
AB22	17,370	5,409
AB23	10,126	3,264

The 'GB\_City\_Major\_Town Browser' window displays the following data:

Name	Name_Lng	SmartLabel	Alt_Name	Alt_Nm_Lng	Category	Featu
Milton Keynes	ENG	Milton Keynes			100	24826
Mold	ENG	Mold	Yr Wyddrug	WEL	100	23826
Monmouth	ENG	Monmouth	Trefynwy	WEL	50	23826
Morpeth	ENG	Morpeth			100	27826
Motherwell	ENG	Motherwell			100	21826
Neath	ENG	Neath	Neath	WEL	100	23826
Newbury	ENG	Newbury			100	29826
Newport	ENG	Newport			100	29826
Newport	ENG	Newport	Casnewydd	WEL	100	23826

The status bar at the bottom indicates: Zoom: 194.1 km, Editing: Cosmetic Layer, Selecting: None.

\*Part of the Premium Service option

## MapInfo Pro v11.5 added

New Legend Designer window

Improvements to the Browser window

New Workspace Resolver: Open workspaces with missing tables

SQLite support

WFS v1.1 support

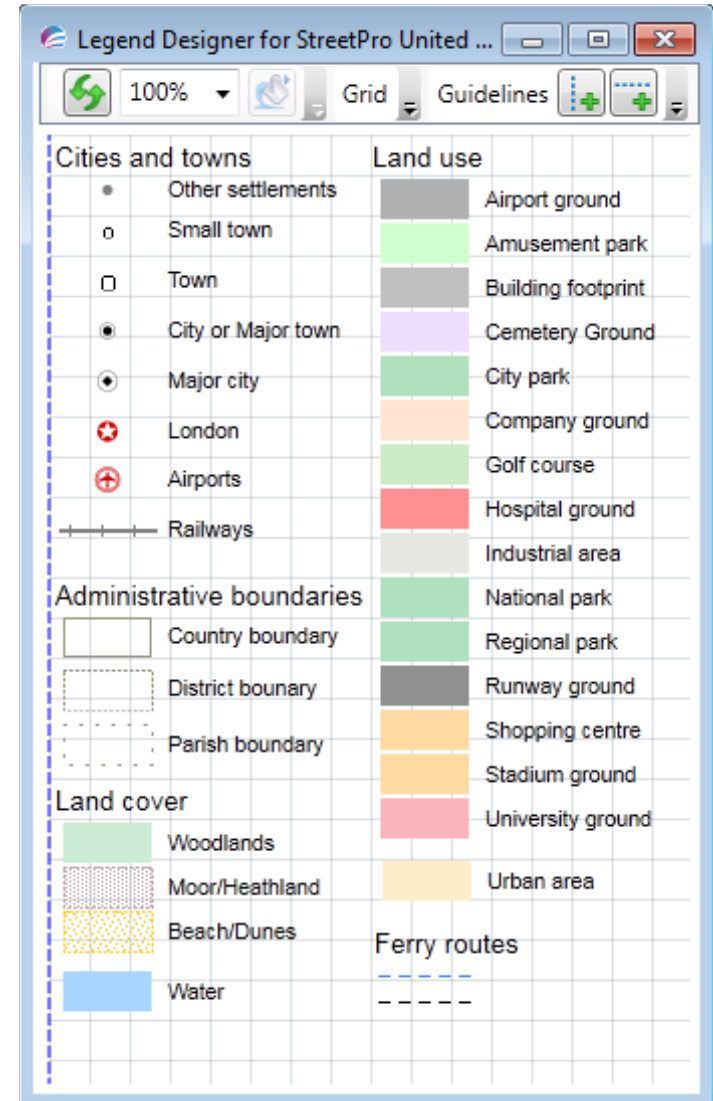
Additional symbol fonts and fill patterns

Google Earth Enterprise Tile Server support

Oracle Connect support

Improved support for using multiple displays

Support for SQL Server 2012





# MapInfo Professional v11.5

The screenshot displays the MapInfo Professional v11.5 interface. The main map window shows a world map with various countries labeled. Overlaid on the map are several windows and callouts:

- Improved support for multiple screens:** A callout pointing to the top toolbar area.
- Create and edit MapInfo Manager metadata:** A callout pointing to the Catalog Browser window, which lists datasets like "2m Composite LIDAR Digital Terrain Model JPEG" and "Land and Property Owned".
- All new Legend Designer Window:** A callout pointing to the Legend Designer window, which shows a legend for "WorldInfo and Bing Aerial" with items like "Arctic\_Circle", "Antarctic\_Circle", "Equator", "Tropic\_Of\_Capricorn", "Tropic\_Of\_Cancer", and "15 degree grid".
- New Browser window quick access toolbar:** A callout pointing to the toolbar above the Table List window.
- Sort and filter with just a few clicks:** A callout pointing to the sorting and filtering options in the Table List window.

The Table List window displays a table with the following data:

Country_Name	Population_	Capital	SmartLabel_	Official_Name
China	1,336,311,000	Beijing	China	People's Republic of c
Brazil	360,203,000	Brasilia	Brazil	Federative Republic c
United States	308,799,000	Washington, D.C.	United States	United States of Ame
Indonesia			Indonesia	Republic of Indonesia
Pakistan			Pakistan	Islamic Republic of P
Bangladesh			Bangladesh	People's Republic of I
Nigeria			Nigeria	Federal Republic of N
Russian Federation			Russian Federation	
Japan	127,938,000	Tokyo	Japan	

The status bar at the bottom shows: Zoom: 18,900 mi, Editing: Cosmetic Layer, Selecting: None.

# New Browser window (v11.0 and v11.5)

Reapply (refresh) a sort or filter (needed when adding or editing data)

Choose the text style for the Browser

Add a new row

Sort and Filter menu

Select Menu

Select All

Unselect All

Pick the fields to include

Click a column header to sort. Right click for sorting and filtering

Handy tip: Click in a cell to edit, double click to select a word and triple click to select the entire contents of the cell.

The screenshot shows a web browser window titled 'countries\_small Browser'. The interface includes a toolbar with icons for sorting, refreshing, selecting, and adding rows. A 'Sort and Filter' menu is open, showing options like 'Sort Multi-Column...', 'Reapply Filter', 'Toggle Filter Off', 'Clear All Sort & Filters', 'Clear Filters', 'Clear Sort', and 'Create a Query from the Browser Contents...'. A 'Select Menu' is also open, showing 'Select All' and 'Unselect All'. A right-click context menu is visible over the 'Population\_2008' column header, showing 'Sort A to Z', 'Sort Z to A', 'Filter...', and 'Clear Filter'. The table below contains data for various countries, including Bangladesh, Thailand, Italy, Japan, United States, and others, with columns for country names, population, and city names.

		Population_2008	SmartLabel_ShortF		
		234,343,000		Jakarta	
		1,336,311,000		Beijing	
		61,946,000		Paris	
		107,802,000		Mexico City	
		89,652,000		Manila	
	and Northern Ireland	60,776,238	United Kingdom	London	
		151,479,000	Nigeria	Abuja	
Bangladesh	People's Republic of Bangladesh				
Thailand	Kingdom of Thailand				
Italy	Italian Republic				
Japan		127,938,000	Japan	Tokyo	
United States	United States of America	308,799,000	United States	Washington, D.C.	

# MapInfo Pro v12.0 added

“Smart” labelling – many enhancements

Improved Scale Bar

Improved Legend Designer

New user interface for working with database systems

Improved SQL Server support (geography data type)

Upgraded universal translator

Layer control enhancements

Support for wider data records (64,500 bytes)

Built-in notifications for patch releases

MapCAD improvements





# Some Details on Labelling Improvements added in version 12.0

## Labeling Lines:

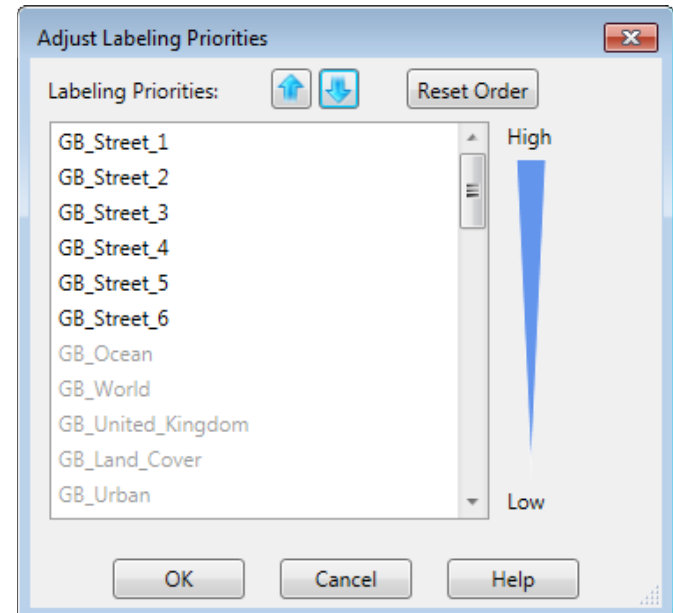
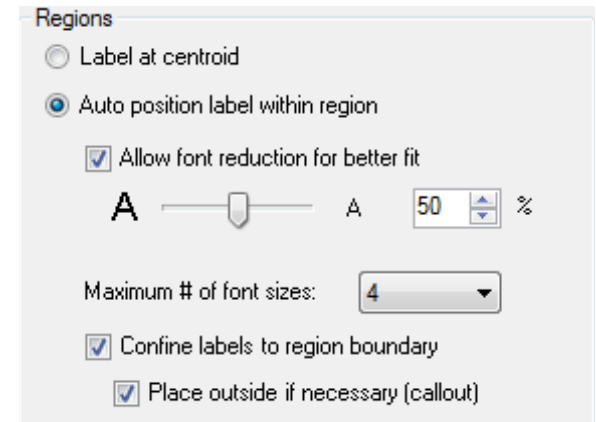
- Combine curved & rotated labels
- Option for alternative placement along polylines
- Click and drag to move curved labels

## Labeling Regions:

- Confine to region boundary
- Place outside region with callouts
- Font reduction to fit in region

## General:

- Control priority of labels across layers
- Use secondary abbreviation column when label will not fit



# MapInfo Pro v12.5 added

Released both a 32 bit and, for the first time, a full 64 bit version.

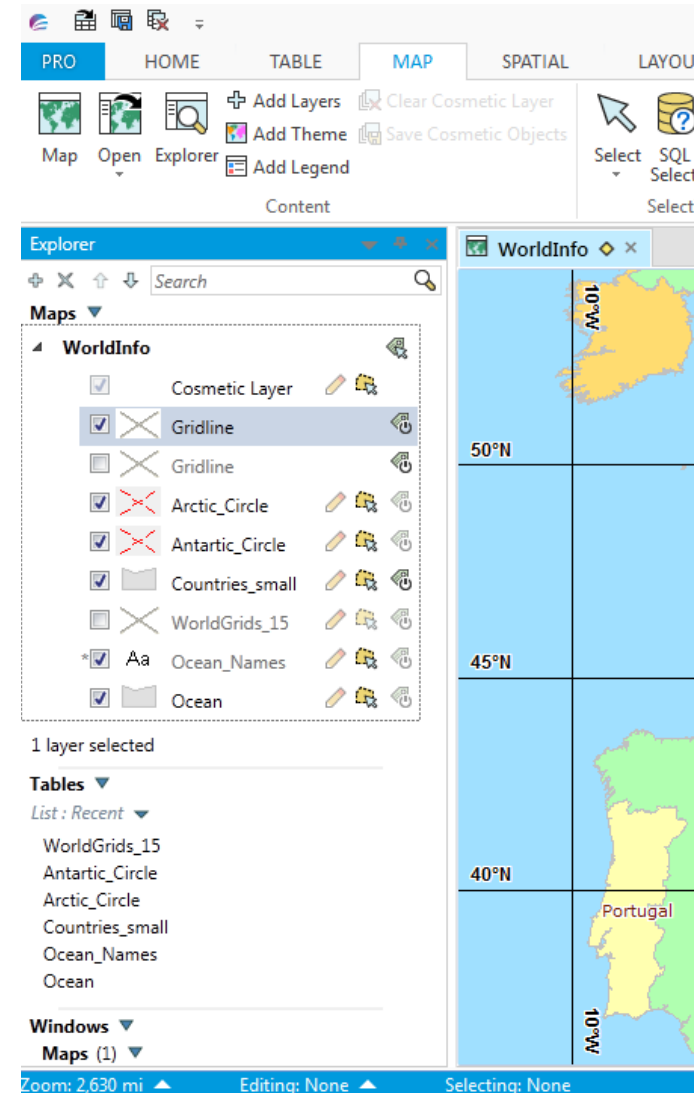
64 bit version has an all-new ribbon based user interface

All new Layout Designer

Improved performance: Multi-threading of key object processing operations

Additional data format support

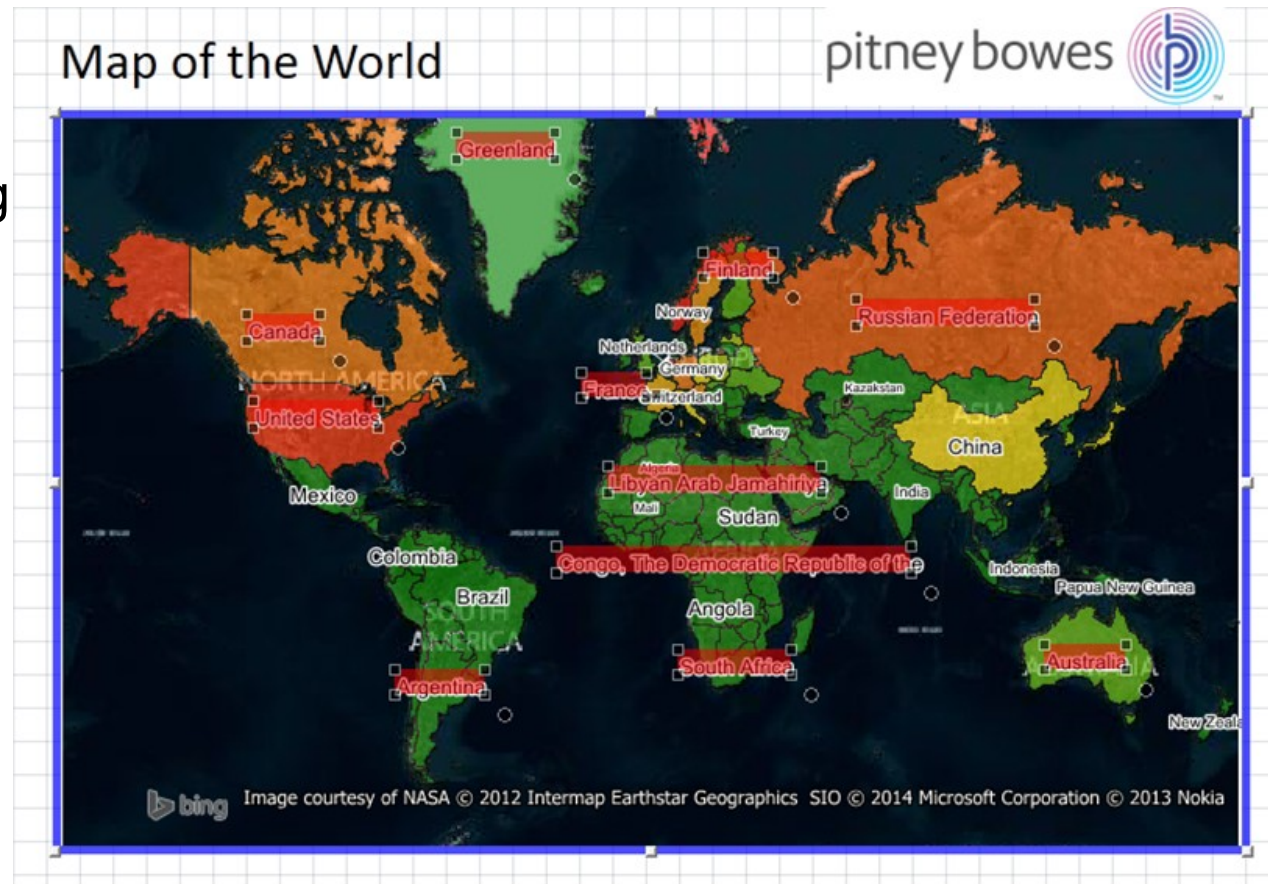
- Read support for GML 2.1.2, 3.1.1 and 3.2.1
- Write support for GML SF-0 (simple features)
- Read/write support for ESRI Geodatabase



# New Layout Designer – Active Map and Browser windows

Work directly with your Map and Browser windows without leaving the Layout page!






- Pan and Zoom
- Adjust layers
- Modify labels
- Set the scale
- Add layers
- Edit objects



Prepare maps for printing more quickly and easily than ever before.

Also work directly with Browser windows without leaving the Layout canvas!

# MapInfo Pro v15.0 and v15.2

Theme	Improvement	v15.0 (32 bit)	v15.2 (64 bit)
 Creating output	Improvements to the Layout Designer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 System	Support for touch screens	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 Performance	Improvement to Update, Append and other operations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 Data access	Unicode Support Support native tables (and database cache) larger than 2 GB GeoPackage Support (Q1 2016)		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
 Interoperability	Integration with the Spectrum Global Geocoding module		<input checked="" type="checkbox"/>

# MapInfo Pro v15.2 Layout Designer Improvements

The screenshot displays the MapInfo Pro v15.2 Layout Designer interface. The main window shows a map of California titled "California Wildfires" with a color-coded legend for wildfire risk levels: Very High (orange), High (red), Moderate (blue), Pink - How bad can it be? (pink), Non-Wildland/Non-Urban (light blue), Urban Unzoned (yellow), and all others (black). The map includes a coordinate grid and a scale bar. A large red triangle symbol is placed on the map, and a rotated image of a wildfire is also visible. A text box on the right side of the map contains information about high-risk camping areas, including a URL and a quote from Smokey the Bear. A legend box is located at the bottom right of the map. A scale bar is positioned at the bottom of the map. The interface includes a multi-page layout view on the left side, showing two pages of the layout. The status bar at the bottom indicates the current page is 1 of 2. The zoom level is set to 50%.

Wildfire Layout - 2pg

Wildfire Layout - Alternate

1

2

California Wildfires

124°W 122°W 120°W 118°W 116°W 114°W

42°N

40°N

36°N

34°N

124°W 122°W 120°W

ONE LESS SPARK  
ONE LESS WILDFIRE  
preventwildfire.ca.org/OneLessSpark

High Risk Camping Areas

Wildfires are extremely dangerous. Before you hike, find out if the areas you'll be in are at risk.

Being safe is a matter of common sense. Avoid parking your car in tall grass at the trailhead. Respect campfire regulations. Learn how to use your camp stove correctly and safely. Like Smokey says, "Only YOU can prevent forest fires."

<http://socialhiker.net>

Very High  
High  
Moderate  
Pink - How bad can it be?  
Non-Wildland/Non-Urban  
Urban Unzoned  
all others

0 200 miles

50%

1 of 2

Multi-page Layout with previews and easy navigation.

Add dynamic graticules to your map.

Rotated images





Symbol, polyline and polygon annotations

Support for scale bars on Layout canvas (outside of map window)



# New Extended TAB file format

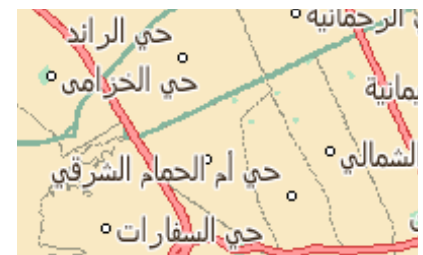
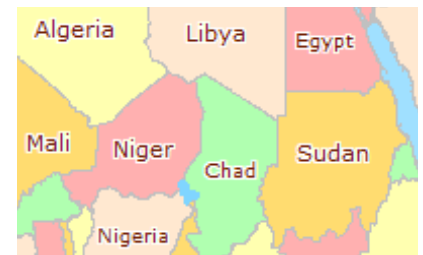
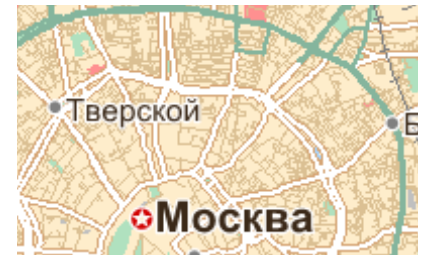
- Support for files larger than 2 GB in size
- Unicode (UTF-8 or UTF-16) character set support
  - Use data with different character sets.
- Performance improvements in v15.2 also help make it practical to work with larger files.

 Europe Premium POI.DAT	DAT File	97,140,534 KB
 Europe Premium POI.ID	MapInfo Table File	363,143 KB
 Europe Premium POI.MAP	MapInfo Table File	5,241,216 KB
 Europe Premium POI.TAB	TAB File	3 KB

Support for  
tables larger  
than 2 GB

515 CHEMIN DES LAURENTS	SPERACEDES	ALPES-MA
IMPASSE BOIS LEMAITRE	MARSEILLE	BOUCHES
6 B RUE PELLETIER	MONTMAGNY	VAL-D'OIS

records 5 - 15 of 46482198



# Examples of performance improvements in MapInfo Pro v15.2

Number of rows in table	SQL Query	Number of rows in result	Time v12.5.4	Time v15.2	Table size (.dat file)
13,000,000	Value > 80,000	2,600,000	4 hrs 12 min	1 min	347 MB
1,240,000	Group = "Business Services"	97,800	35 sec	14 sec	1.9 GB
15,250,000	Employee count >= 500	26,284	<i>not possible</i>	3 min 12 sec	21.5 GB

Number of rows in table	Map Query	Number of rows in result	Time v12.5.4	Time v15.2	Table size (.dat file)
602,000	Boundary select tool within 100km circle	253,000	3 min 32 sec	20 sec	1.7 GB
602,000	Invert the above selection	349,000	6 min 36 sec	5 sec	1.7 GB

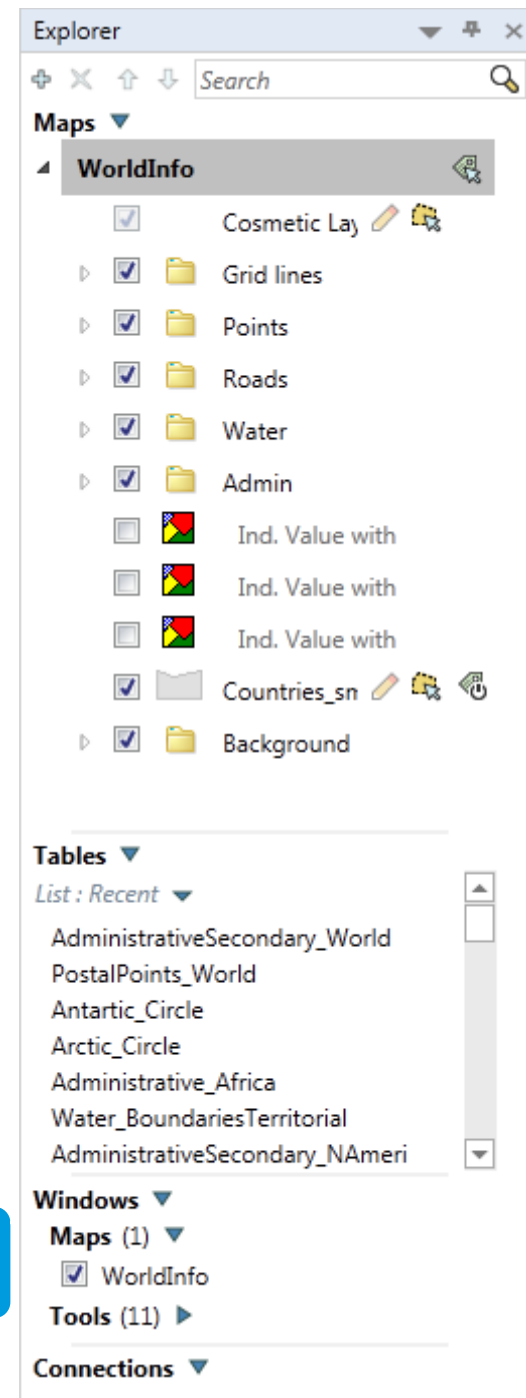
Rendering of point objects	Version 12.5.4 (64 bit)	Version 15.2
WorldPlaces (675,000 points - global)	1 minute 50 seconds	11-15 seconds

# Using the 32 bit and 64 bit versions

The new 64 bit MapInfo Pro was built with backwards compatibility in mind.

- Data and workspaces from earlier versions can be used.
- MapBasic applications are also supported. Some will run without modification, some will require changes.
- The same serial number and access code will unlock both the v15.0 and v15.2 releases of MapInfo Pro.
- You can install and run both side-by-side on the same computer.

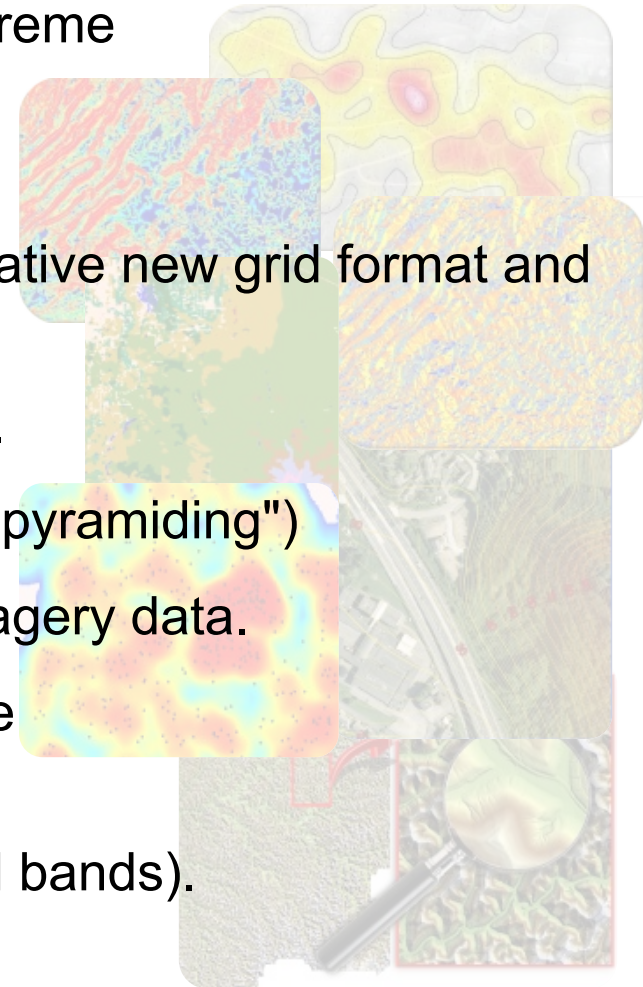
The new  
Workspace Explorer



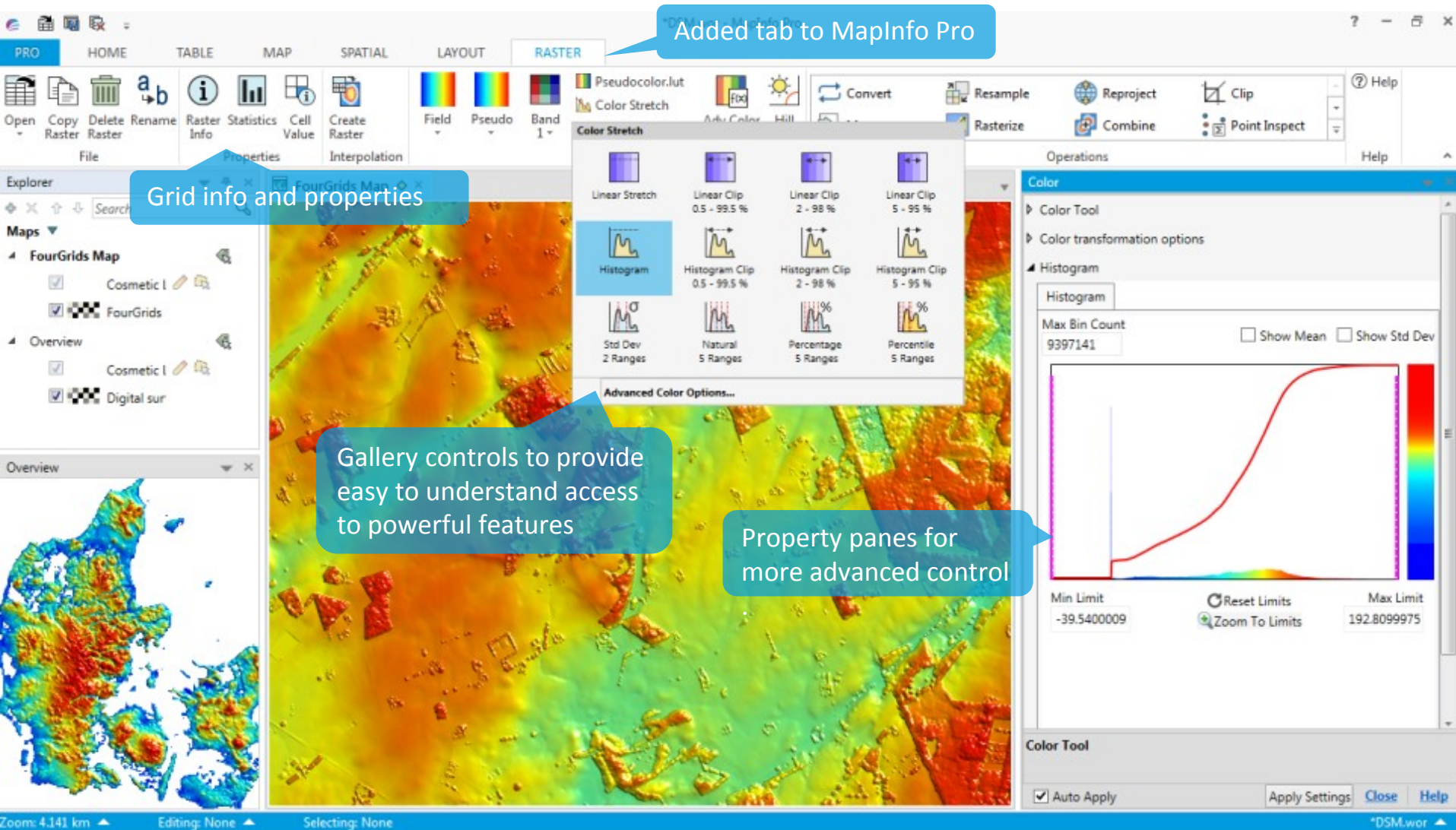
# MapInfo Pro Advanced – next generation raster GIS

- MapInfo Pro add-on for version 15.2
- Grid support in Spectrum Spatial and MapXtreme
- An SDK for custom applications
- **Multi Resolution Raster (MRR)** – an innovative new grid format and high performance engine
  - Great performance with very large grid files.
  - Efficiently displays data at all zoom levels ("pyramiding")
  - Support for both numeric, classified and imagery data.
  - Multi-resolution raster format allows variable size grid cells for improved efficiency.
  - Multiple variables in a single grid (fields and bands).

For MapInfo Pro v15.2 only



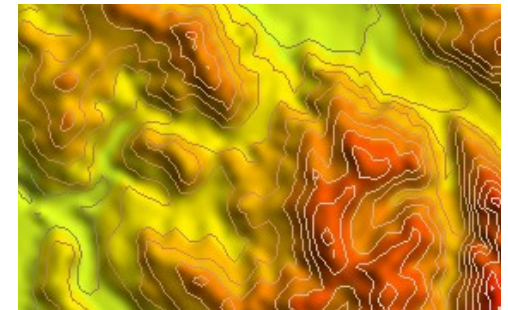
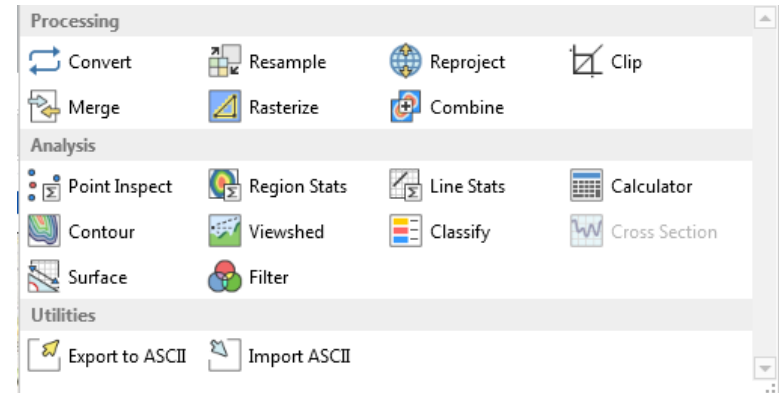
# MapInfo Pro Advanced





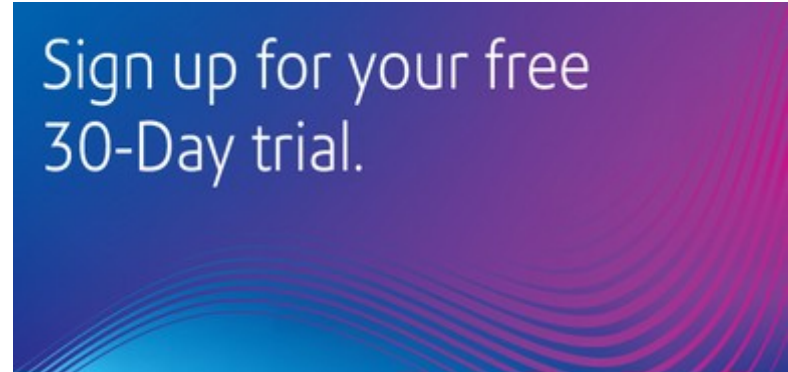
# MapInfo Pro Advanced summary of capabilities

- Create grids from points (interpolation and modeling)
- Powerful display options – color gallery and hill shading
- Import/Export grids from a variety of formats
- Combine (merge), resize, reproject, classify/reclassify and clip grids
- Take advantage of multi spectral imagery
- Combine raster grids of different cell sizes into a single grid
- Update points, lines and regions with data from your grids
- Grid calculator for querying, filtering and performing grid math
- Calculate slope, aspect and curvature grids
- Contouring
- Create grids from region data (rasterize)
- Calculate viewsheds and cross-sections



# MapInfo Pro free trial download

<http://web.pb.com/mipro15-2>



Note that this download page has both

- Version 15.0 (our latest 32 bit release)
- Version 15.2 (our latest 64 bit release)

The free trial includes MapInfo Pro Advanced.

## Want to learn more?

Lots more information is available from our monthly journal of tips, tricks and techniques.

A horizontal banner with a blue-to-purple gradient background. On the right side, there are white, curved, wavy lines. The text "The MapInfo Pro™ Monthly Journal" is written in white, sans-serif font on the left side of the banner.

The MapInfo Pro™ Monthly Journal

<http://web.pb.com/mapinfopro-archive/>

# Thank you