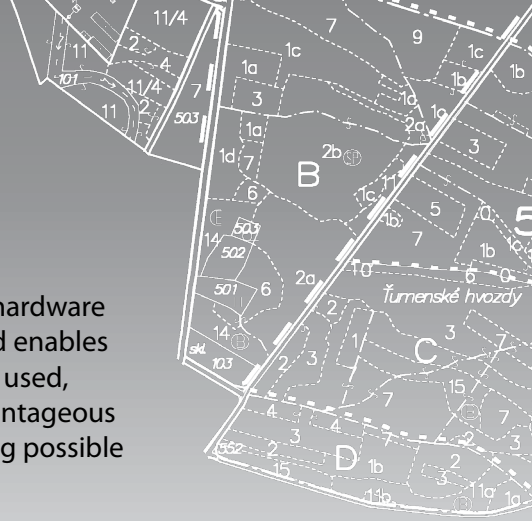


# Forest Management Planning

with Field-Map technology

Field-Map is a technology that combines a unique software with various sets of hardware used for measurements; it allows fast and efficient data collection in the field and enables further data processing, analysis and presentation. Field-Map technology can be used, among other uses, to develop forest management plans. This technology is advantageous primarily because calculations are performed directly in the field, thus minimizing possible errors and considerably reducing the amount of office work.

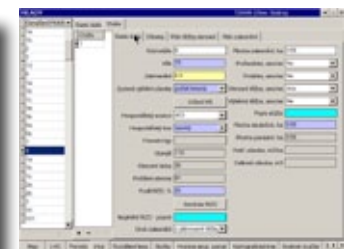
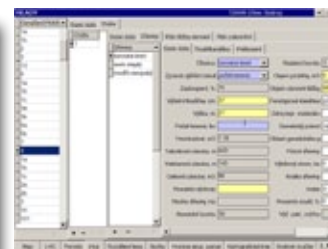


## Functions supported by Field-Map for Forest Management Planning

- Import/export of graphical and numerical data
- Connection between maps and the management plan directly in the field computer (this increases quality of work and efficiency, and prevents making errors)
- Aerial images displayed as a background on the field computer screen
- Automated calculation of selected characteristics (e.g. volume/ha) directly in the field
- Relationship with tree growth model for an adaptive management plan in time
- Creation of different maps directly in the field
- Predefined algorithms for data verification
- Low weight equipment (about 1.7 kg) and long lasting batteries (8-10 h)

## Main advantages of using Field-Map technology for Forest Management Planning

- Data from previous plans can be stored in the field computer and used for comparisons between different management plans
- Calculation of the amount of wood is done automatically by Field-Map software after the necessary stand characteristics are entered. The user can measure tree volume either using a relascope or by establishing a real plot. The methodology can be adapted so as to fit the context
- The analysis and assessment of wood growth allow to estimate future value of the property
- During the field work, it is possible to check graphical and numerical data
- The combination of classic management plan with the assessment of stand volume provides a dynamic management plan that always reflects the current value of the forest
- Boring activities such as entering data to computer are limited
- Financial and qualitative information gained is of high precision





## Equipment used for Forest Management Planning

Field-Map software allows the user to fully exploit the capabilities of the hardware equipment during the field work.

Since the user constantly changes position in the terrain, the equipment must be movable. For this purpose, we recommend a lightweight technology consisting of a small field computer, a pocket GPS and a laser rangefinder. For purposes of callipering, technology with an additional electronic caliper is available. For more information about hardware components and configurations, see the Field-Map Catalogue at [www.field-map.com](http://www.field-map.com)

### Laser-rangefinder, inclinometer and compass

Used for mapping (distances, slopes, Azimuth), navigation in the terrain, dendrometric measurements and optionally provides the functionality of relascope®

### Tablet computer

Used for receiving, entering and processing data

### GPS

Used for orientation in the field and on maps

Field-Map software also supports other hardware, such as electronic calipers, all GPS devices, etc. IFER also provides special scopes for upper diameter and profile measurements on standing trees

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