


Description of innovation

| Innovation | |
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| Title | LogBuch |
| Picture |  A photograph showing a person's hand holding a smartphone displaying a green interface. In the background, there is a computer monitor, a white keyboard, and an orange hard hat on a desk. |
| Domain | Digitalisation |
| Source of wood | Stemwood |
| Location | Baden-Württemberg |
| Implementers | LogBuch GmbH & Co. KG |
| Actual status | Running |
| Approach | LogBuch enables data aggregation in the forest, a simple evaluation of the data and further processing. A 2-frequency GNSS-receiver connected to a smartphone to estimate the current position. A bluetooth button is used for language analysis. All spoken information can be recorded and the actual position lodged. WLAN for data exchange between smartphone, webserver and other users. Automatic transcription and classification of the spoken words by using keywords. Data can be exported as a map or table in georeferenced or not referenced formats (xlsx, GeoJson, shp, GPX, map) |
| Main results | The system works quite well. The overall accuracy of the GNSS-sensor is under different coverage situations below 3m (average accuracy, n=900). The language analysis and transcription into text showed mainly useful results. Some minor improvements should be done to improve the overall performance of the system. The system is already in use in different state forestry administrations and research institutes (mainly in Germany but also in Switzerland) |
| Lessons learned | The development of LogBuch is an ongoing process. The company improves the system in short time intervals and pays attention to user-friendly development. LogBuch is a powerful system, which can be used for many applications in future |

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| Link to website | https://logbuch.xyz |
| Code | IN_CH_01 |

Innovation assessment

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| Region | Germany, Switzerland, Austria |
| Time scale | 2017 - |
| Mobilization Potential | 1 - 2 m ³ /ha |
| Kind of wood concerned | Stemwood |
| Sustainability Potential | Positive |
| Impact on environment & biodiversity | Positive / Depending on management decisions |
| Ease of implementation | Easy |
| Economic impact | - 10€/ ha |
| Job effect | Better qualified staff |
| Income effect | Positive |
| Specific knowledge needed | Low / the manual is quite self-explanatory |
| Costs of implementation | Ca. 3000 € / LogBuch unit; annual costs around 150 € (webportal) / few working hours |
| Technical readiness level | Applicable |
| Key information for adoption | For android only |