

Amberg IMS Family

Tailored for rail professionals



Why choose Amberg IMS family for your highest demanding tasks?



Half the staff needed



Double your production output



Double measurement accuracy



Technology pioneers

AMBERG IMS – an incredible success story



High-Speed Rail

- Design speed up to 400 km/h
- Highest mechanical stress on infrastructure demands frequent inspections (e.g. settlements detection)

➔ Final Track Acceptance and Inspection require highest accuracy in absolute and relative

Specifications AMU 2030

Repeat accuracy (1 sigma)	Control point interval
+/- 1 mm	< 60 m
+/- 2 mm	< 120 m
+/- 5 mm	< 300 m

Continuous developments for better scalability of demands

Conventional and Urban Rail

- Design speed up to 200 km/h
- Continuously increasing track occupation
- Mixed traffic – passenger and freight trains

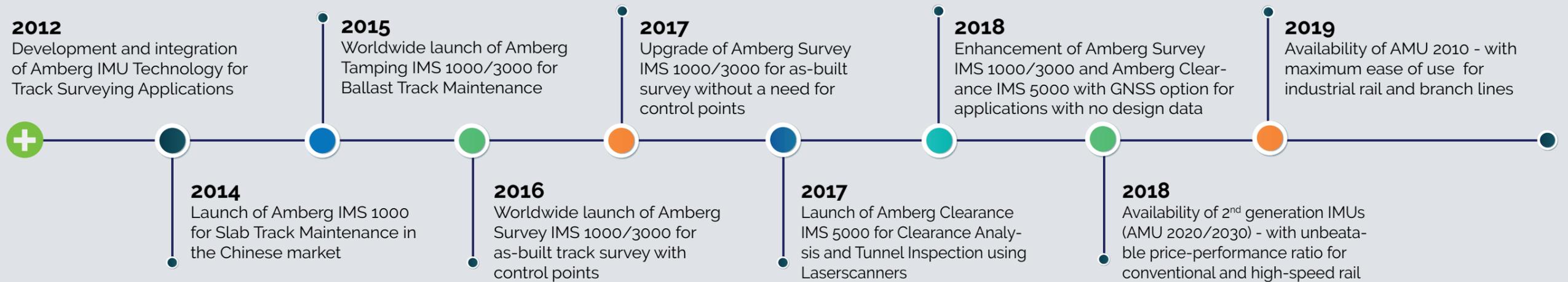
➔ Limited track access times require fast and reliable data collection in shortest time slots

Specifications AMU 2020 (upgradable to AMU 2030)

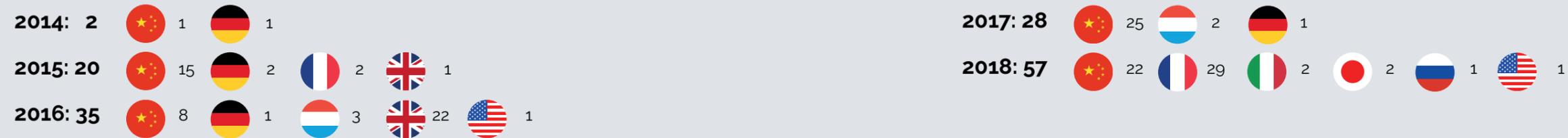
Repeat accuracy (1 sigma)	Control point interval
+/- 2 mm	< 60 m
+/- 4 mm	< 120 m
+/- 12 mm	< 300 m



AMBERG IMS EVOLUTION



SOLD IMS SYSTEMS



Industrial Rail and Branch Lines

- Design speed up to 120 km/h
- Moderate budgets for regular maintenance

➔ Achieve track quality with best possible cost-benefit ratio

Specifications AMU 2010

Repeat accuracy (1 sigma)	Control point interval
+/- 3 mm	< 60 m
+/- 6 mm	< 120 m
+/- 20 mm	< 300 m

The right IMS for your requirements

- Full scalability on three quality levels
- Appropriate and attractive pricing for each configuration
- Interesting upgrading possibilities

➔ Based on well-tried technology introduced 6 years ago

Benefit from

- Surveyors all over the world trust in our IMS technology
- No environmental limitations like refractions
- Minimising the time on the track means maximising safety
- Prepare track maintenance for peanuts

Amberg IMS – the only IMS that works!



AMBERG IMS: faster, more efficient and more accurate.

Amberg IMS provides reliable and highly precise geometry information during the construction, maintenance and inspection of railway track systems – while achieving unparalleled productivity. Take a look at our Amberg IMS solutions and its fields of application.



Amberg Survey

Highly efficient system for as-built survey of existing railway lines for documentation and future planning purposes

- Global 3D topographic track survey with given 3D control points
- Local 3D topographic track survey in case no control points are available – creation of re-usable control points during initial survey
- Relative track geometry survey with stationing as reference system
- GNSS as option for absolute survey



Amberg Tamping

High-performance system solution for track alignment data or control-point-based tamping survey

- High-speed system for preparation of correction data for tamping machine
- Well-trieed long-chord measurement mode only with one trolley
- Data acquisition in shortest time slots



Amberg Slabtrack

Integrated surveying solution optimised for the typical requirements during construction, monitoring and maintenance of slab track lines

- Fast and high accuracy acceptance measurement
- Frequent track geometry control
- Correction data based on sleeper number



Amberg Clearance

Modular system solution for manual and automatic clearance survey including sophisticated engine for static and dynamic clearance analysis

- Comprehensive scan data for clearance analysis and design purposes
- Combined survey of relative and absolute track geometry
- 3D point clouds and track data for transfer to BIM or CAD system

More than 140 IMS systems sold worldwide – Amberg, track pioneer in IMU technology!

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