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Department of the Environment,
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Federal Office of Transport FOT

Swiss Confederation

Safety on Level Crossings in Switzerland



ILCAD, 7th Mai 2013, United Nations Genève
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Content

- **The tasks of the FOT**
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The tasks of the OFT

- **Safety of public transport**
 - **Safety standards and norms**
 - **International coordination**

- **Supervision of safety**
 - **Collaboration with transport enterprises**
 - **Installations and rolling stock**
 - **Planning, construction and operations**



Safety on Level Crossings in Switzerland

- **Features and conditions**
 - **decentralized demography**
 - **high density of population**
 - **high density of train circulation**

- **Reconstruction of Level Crossings**
 - **adaptation of Level Crossings on current ordinances**
 - **innovation: The new type MICRO**



Safety on Level Crossings in Switzerland

Level Crossing with full barriers





Safety on Level Crossings in Switzerland

Level Crossing with half barriers





Safety on Level Crossings in Switzerland

Level Crossing with flashing lights





Safety on Level Crossings in Switzerland

passive with St. Andrew cross





Safety on Level Crossings in Switzerland

Type MICRO





Safety on Level Crossings in Switzerland

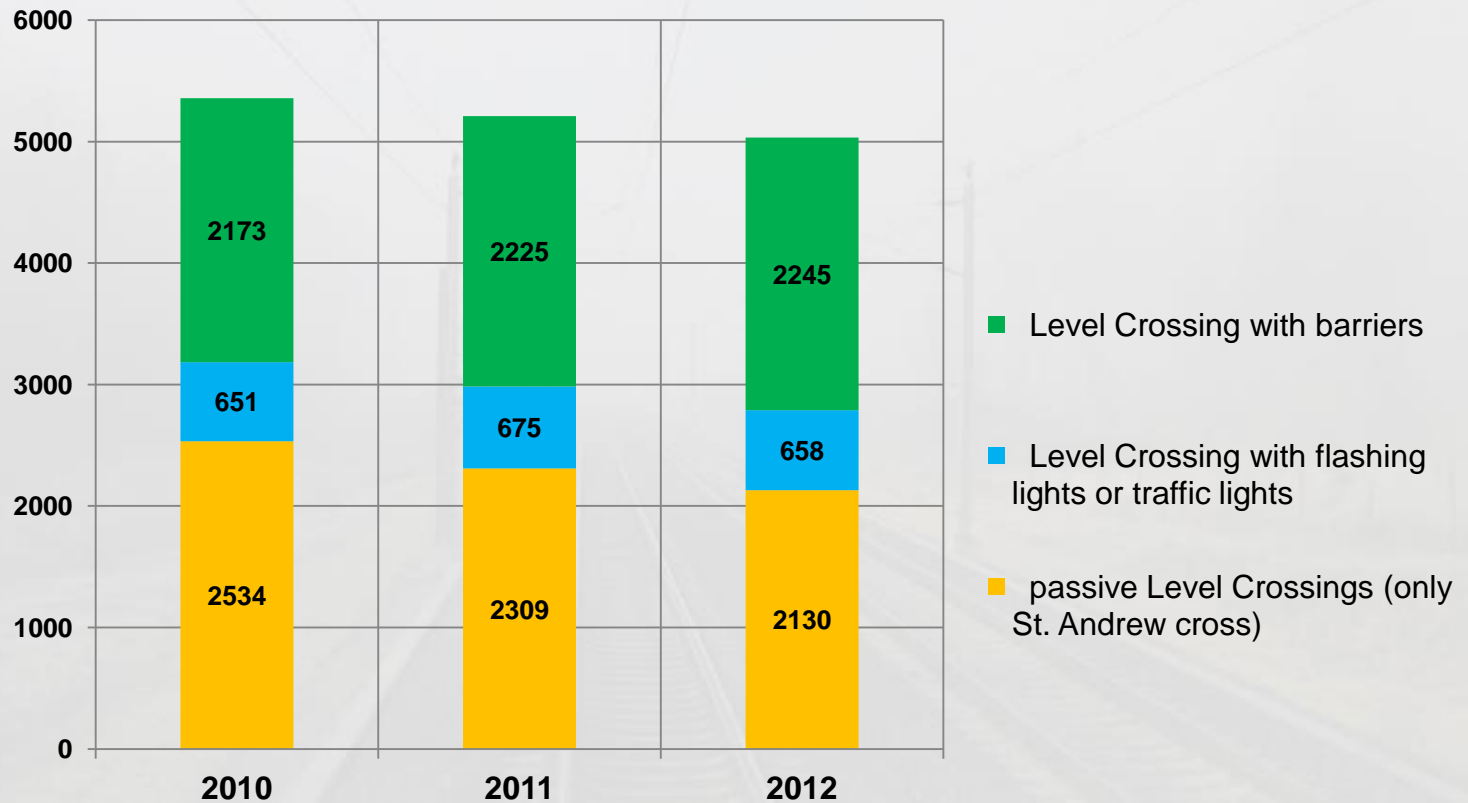
■ Number and distribution

	2010	2011	2012
passive (only St. Andrew cross)	2534	2309	2130
Level Crossing with flashing lights or traffic lights	651	675	658
Level Crossing with barriers	2173	2225	2245
Total number of Level Crossings	5358	5209	5033



Safety on Level Crossings in Switzerland

■ Number and distribution





Safety on Level Crossings in Switzerland

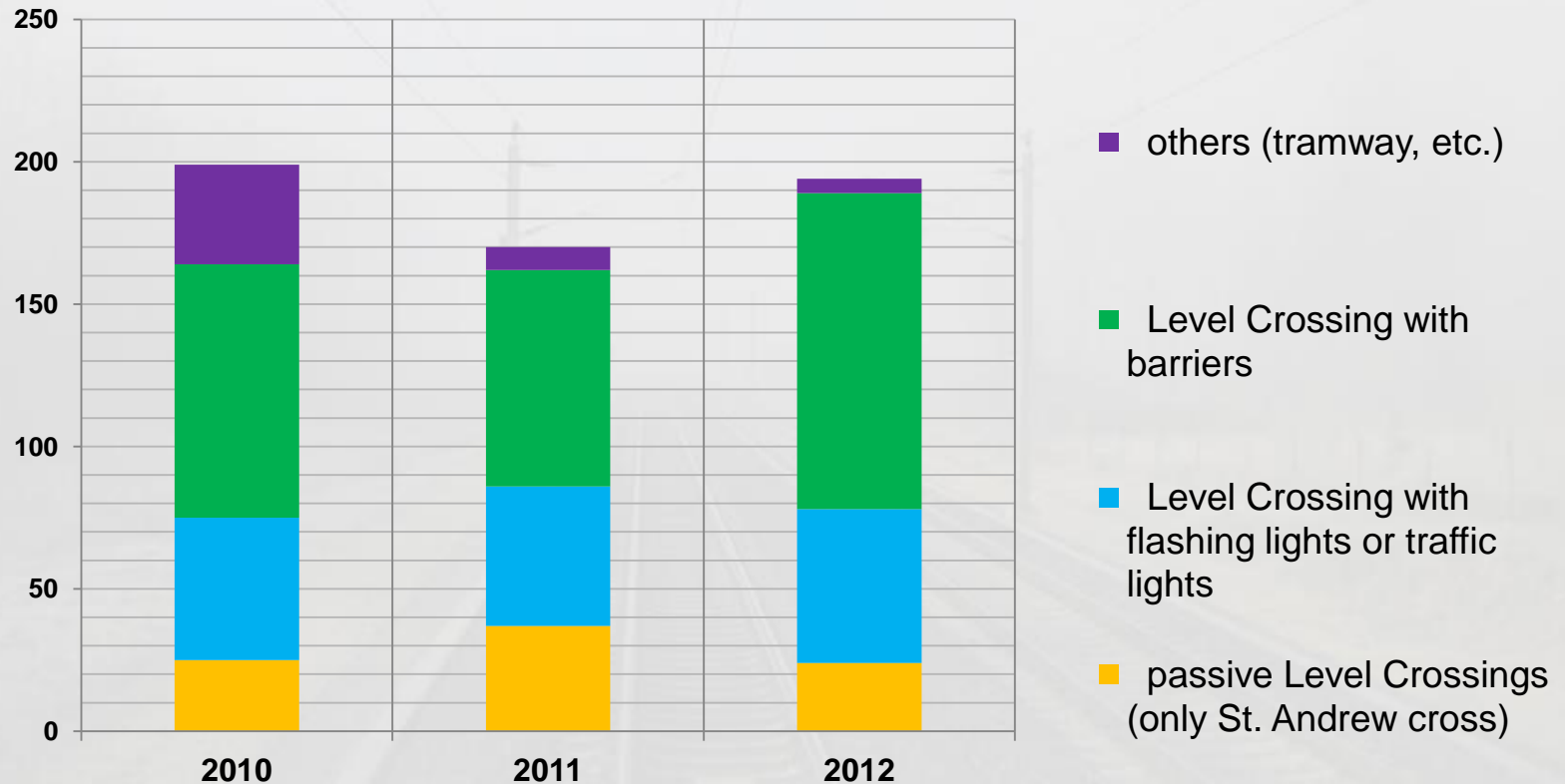
Incidents on Level Crossings

	2010	2011	2012
passive Level Crossings	25	37	24
Level Crossing with flashing lights or traffic lights	50	49	54
Level Crossing with barriers	89	76	111
others (tramway, etc.)	35	8	5
Total of announced incidents	199	170	194



Safety on Level Crossings in Switzerland

Incidents on Level Crossings

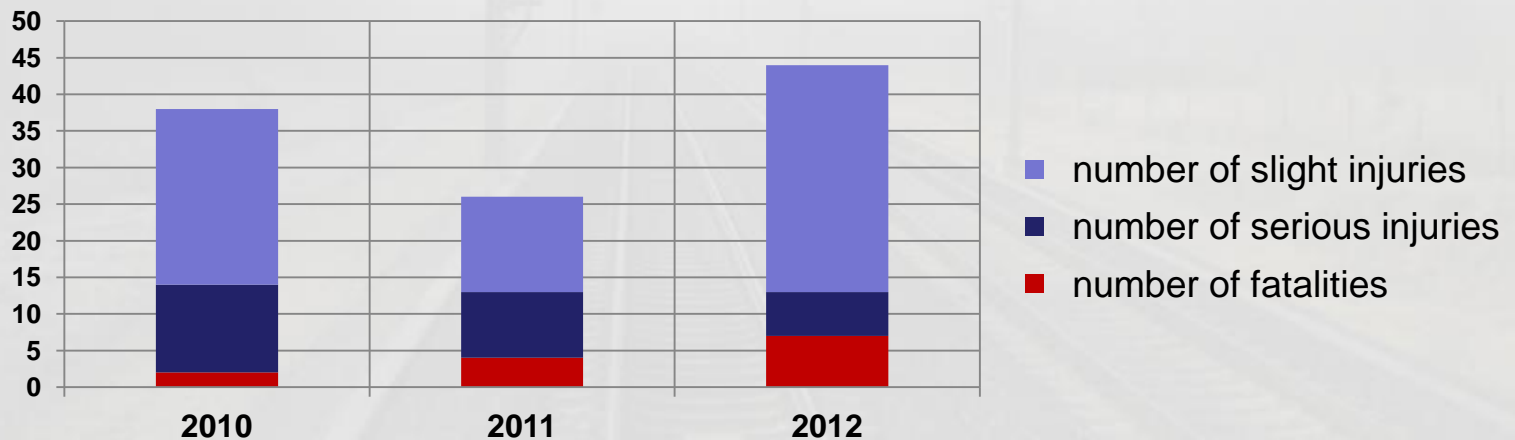




Safety on Level Crossings in Switzerland

Consequences of accidents

	2010	2011	2012
fatalities	2	4	7
serious injuries	12	9	6
slight injuries	24	13	31





Conclusions

- **Accidents with persons are increasing**
 - **diminution of respect for rules and regulations**
 - **dangers are not known**

- **Distraction and routine**
 - **Many casualties lives in the environment of the accident**
 - **impact of electronics (headphone, etc.)**



Consequences and measures

- **Technical improvement**
 - reconstruction of Level Crossings
 - new signalling and supervision technologies

- **Prevention**
 - formation and education
 - public information
 - awareness raising



Thank you for your attention!

