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# Planning Disaster Response and how to use International or European Standards

Prof. Dr.-Ing. Peer Rechenbach

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## Who is who?



- Prof. Dr. Peer Rechenbach  
Civil Engineer of Power Electricity, Chief Fire Officer(retired)
- Senior Expert of Disaster Response Management, Civil Protection, Leadership Organization and CBRN-Measurement based on international experiences. Former Head of the State Department of Civil Protection, Fire and Emergency Medical Services, Civil-Military Coordination and Disaster Response Management of Hamburg (retired). Expert in the German Delegation of ISO/TC 292 and CEN/TC 391.
- Former Member of the United Nation Disaster Assessment and Coordination Team (UNDAC) and High Level Coordinator of the Disaster Response Mechanism of the European Union.
- Part Time Lecturer at the Hamburg University of Applied Science, the Friedrich-Wilhelm University of Bonn, and at the Institute of Emergency Medicine of the ASKLEPIOS Clinics Hamburg.

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## International Standards

- Europa
  - European Committee of Standardisation (CEN)  
**Societal and Citizen Security**  
CEN/TC 391
- International
  - International Standard Organization (ISO)  
**Security and Resilience**  
ISO / TC 292

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**You need a plan to solve different questions!**

- What kind of risks?  
(Flash floods, earthquake, movements, hurricane, etc.)
- Vulnerable regions?  
(Surrounding of a chemical plant, nuclear power plant, etc.)
- Vulnerable groups of different persons?  
(elderly people, kids, ethnic groups, etc.)
- Capability of first responders?  
(quantity and quality)
- .....

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**Do you have plan?**

- Disaster response needs a plan!
  - What kind of disaster?
    - Flash floods
    - Earthquake
    - Blizzard
  - What kind of response?
    - Search and rescue
    - Evacuation
    - Fire fighting
    - Distribution of drinking water

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**Types of Emergencies**

- Natural disasters (naturally occurring events)
- human induced events and/or technological failures  
(environmental emergencies)
- Pandemic emergencies
- Complex emergencies (e.g. civil war)

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### Natural disasters

- **Biological disasters:**
  - Animal accidents,
  - epidemics and
  - insect infestations
- **Climatological disasters:**
  - Droughts (with associated food insecurities),
  - glacial lake outbursts and
  - wildfires

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### Natural disasters

- **Geophysical disasters:**
  - Earthquakes,
  - volcanic activity and
  - dry mass movements
    - avalanches,
    - landslides, rockfalls and
    - subsidence of geophysical origin

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### Natural disasters

- **Hydrological disasters:**
  - Floods,
  - landslides and
  - wave actions
- **Meteorological disasters:**
  - Storms,
  - extreme temperature and
  - fog

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### Natural disasters

- **Extra-terrestrial disasters:**
  - Impacts and
  - space weather

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### Technological disasters

- **Industrial accidents:**
  - Chemical spills,
  - collapses of industrial infrastructure,
  - explosions,
  - fires,
  - gas leaks,
  - poisoning and
  - radiation

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### Technological disasters

- **Transport accidents:**
  - Transportation by air, rail, road or water
- **Miscellaneous accidents:**
  - Collapse of domestic or
  - non-industrial structures,
  - explosions and
  - fires.

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### Pandemic emergencies

- Pandemic emergencies: involving a sudden onset of contagious disease that affects health, disrupts services and businesses, brings economic and social costs.

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### Civil conflicts or war

- Complex emergencies: involving a break-down of authority, looting and attacks on strategic installations, including conflict situations and war.

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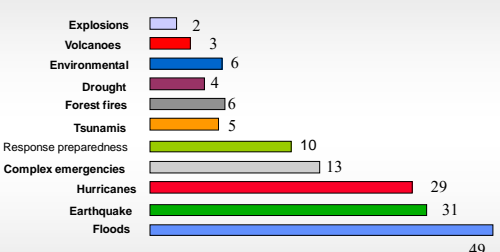
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### UNDAC Mission Analysis by Hazards



Hazard	Mission Count
Explosions	2
Volcanoes	3
Environmental	6
Drought	4
Forest fires	6
Tsunamis	5
Response preparedness	10
Complex emergencies	13
Hurricanes	29
Earthquake	31
Floods	49

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TABLE 5 Total number of reported disasters, by type of phenomenon and year (2005–2014)												
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total	
Droughts <sup>1</sup>	28	20	13	21	31	27	24	31	13	15	223	
Dry mass movements <sup>2</sup>	n.d.r.	1	n.d.r.	3	1	n.d.r.	n.d.r.	1	1	n.d.r.	7	
Earthquakes <sup>3</sup>	25	24	21	23	22	25	30	29	28	26	253	
Extreme temperatures	29	32	25	11	26	34	19	52	17	17	282	
Floods <sup>4</sup>	193	232	219	175	180	190	160	141	149	132	1,751	
Insect infestations	n.d.r.	1	n.d.r.	n.d.r.	1	1	1	n.d.r.	n.d.r.	n.d.r.	4	
Landslides	12	20	10	12	28	32	17	13	11	15	170	
Storms	132	77	105	111	87	95	86	90	106	99	988	
Volcanic activities	8	12	6	7	3	6	6	1	4	8	61	
Wildfires	13	10	18	5	9	7	8	7	10	3	90	
Subtotal climate-, hydro- and meteorological disasters	407	392	390	335	342	386	315	334	306	291	3,488	
Subtotal geophysical disasters	33	37	27	33	26	31	36	31	33	34	321	
Total natural disasters	440	429	417	368	368	417	351	365	339	315	3,809	
Industrial accidents	76	84	53	38	43	36	32	25	23	27	419	
Miscellaneous accidents	66	33	43	30	27	47	34	26	31	32	369	
Transport accidents	229	205	181	192	160	152	178	131	106	144	1,714	
Total technological disasters	371	302	277	290	230	235	244	188	192	203	2,502	
Total	811	731	694	658	598	652	596	553	501	518	6,311	

Source: EM-DAT, OECD, University of Louvain, Belgium

Source: EM-DAT, CRED, University of Louvain, Belgium

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TABLE 6 Total number of people reported killed, by type of phenomenon and year (2005-2014)												
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total	
Droughts <sup>1</sup>	88	208	n.a.	6	2	10,000	10,000	n.a.	n.a.	n.a.	20,304	
Dry mass movements <sup>2</sup>	n.d.r.	11	n.d.r.	120	36	n.d.r.	n.d.r.	16	46	n.d.r.	229	
Earthquakes <sup>3</sup>	76,241	6,692	780	87,918	1,888	226,735	20,946	711	1,120	772	423,803	
Extreme temperatures	814	5,104	1,044	1,608	1,212	57,064	806	1,598	1,882	1,189	72,421	
Floods <sup>4</sup>	5,754	5,945	8,565	4,028	3,381	6,579	6,148	3,574	9,819	3,199	59,082	
Insect infestations	n.d.r.	n.a.	n.d.r.	n.d.r.	n.a.	n.a.	n.a.	n.d.r.	n.d.r.	n.d.r.	n.a.	
Landslides	646	1,638	271	504	642	3,424	309	504	235	1,303	9,476	
Storms	5,294	4,329	6,035	140,985	3,287	1,564	3,103	3,102	8,803	1,383	177,885	
Volcanic activities	3	5	11	16	n.a.	323	3	n.a.	n.a.	101	482	
Wildfires	43	16	148	86	190	166	10	22	35	16	732	
Subtotal climate-, hydro- and meteorological disasters	12,639	17,140	16,063	147,217	8,914	80,797	20,378	8,800	20,674	7,090	339,710	
Subtotal geophysical disasters	76,244	6,703	791	88,054	1,924	227,659	20,946	717	1,156	873	424,494	
Total natural disasters	88,883	23,843	16,854	235,271	10,838	307,655	41,325	9,527	21,840	7,963	764,204	
Industrial accidents	2,281	1,857	1,669	776	934	1,061	727	797	1,907	876	12,877	
Miscellaneous accidents	2,669	1,126	909	895	911	1,507	755	1,112	1,003	646	11,533	
Transport accidents	6,192	7,081	5,075	5,275	5,021	4,177	5,144	4,132	3,891	4,300	50,728	
Total technological disasters	11,652	10,004	7,663	6,946	6,866	6,745	6,626	6,061	6,711	5,884	75,138	
Total	100,535	33,847	24,517	242,217	17,704	314,400	47,951	15,578	28,551	13,847	839,342	

Source: EM-DAT, ORED, University of Louvain, Belgium

Source: EM-DAT, CRED, University of Louvain, Belgium

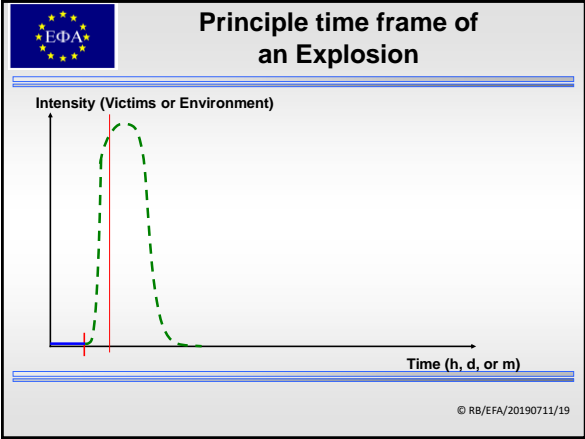
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TABLE 7 Total number of people reported affected, by type of phenomenon and year (2005–2014), in thousands											
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total <sup>a</sup>
Droughts <sup>1</sup>	30,643	44,371	8,278	37,481	108,666	132,925	75,604	43,882	13,124	38,724	536,299
Dry mass movements <sup>2</sup>	n.d.r.	< 0.5	n.d.r.	1	3	n.d.r.	n.d.r.	n.a.	< 0.5	n.d.r.	4
Earthquakes <sup>3</sup>	6,187	3,859	1,382	47,580	3,221	6,387	1,748	2,880	7,031	3,182	83,988
Extreme temperatures	2	63	988	78,171	856	892	4,427	636	270	1,113	86,419
Floods <sup>4</sup>	75,027	31,124	178,901	46,028	61,059	189,703	141,400	74,489	32,064	36,621	866,417
Insect infestations	n.d.r.	n.a.	n.d.r.	n.d.r.	500	2,300	2,300	n.d.r.	n.d.r.	n.d.r.	5,100
Landslides	10	432	9	5	44	2,460	7	4	1	202	3,173
Storms	49,126	67,112	23,974	15,652	90,583	8,931	38,985	20,178	48,150	25,714	349,004
Volcanic activities	341	379	51	40	57	171	49	10	106	210	1,413
Wildfires	7	3	1,785	59	12	30	15	6	9	12	1,938
Subtotal climate-, hydro- and meteorological disasters	154,815	143,106	213,898	178,396	222,719	338,842	262,337	138,185	94,617	103,386	1,849,330
Subtotal geophysical disasters	8,238	4,237	1,433	47,621	3,281	7,108	1,796	2,870	7,137	8,092	85,405
Total natural disasters	161,344	147,343	215,369	226,017	226,000	345,949	264,134	141,065	101,755	106,778	1,934,735
Industrial accidents	46	137	3	14	6	27	1	4	6	254	500
Miscellaneous accidents	77	35	41	21	23	7	48	17	7	9	286
Transport accidents	6	4	4	4	5	3	6	3	6	3	44
Total technological disasters	100	175	48	39	33	37	55	24	22	296	830
Total	161,444	147,519	215,417	226,056	226,033	345,986	264,189	141,089	101,776	107,074	1,935,565

Source: EM-DAT, OREO, University of Louvain, Belgium

Source: EM-DAT, CRED, University of Louvain, Belgium

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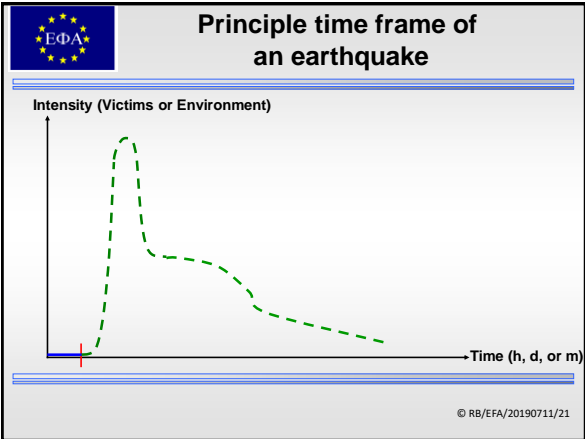
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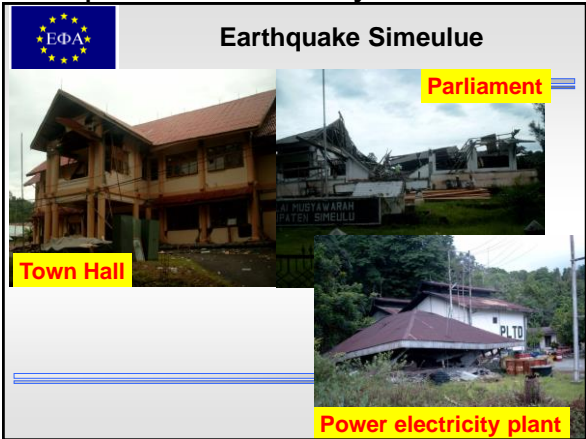
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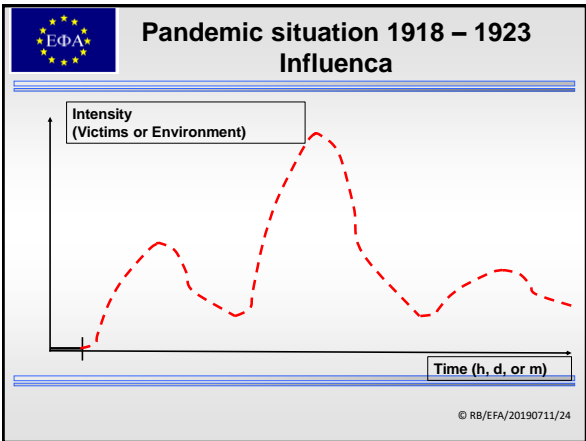
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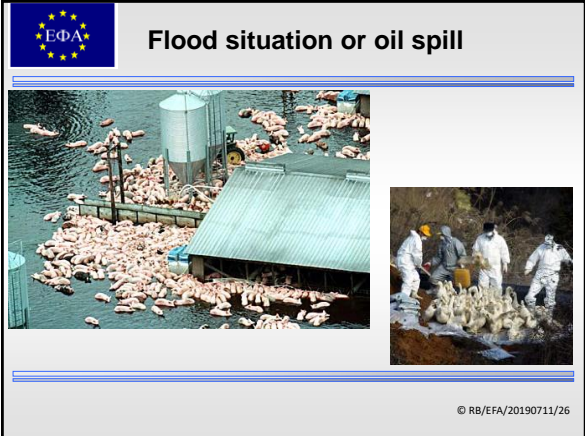
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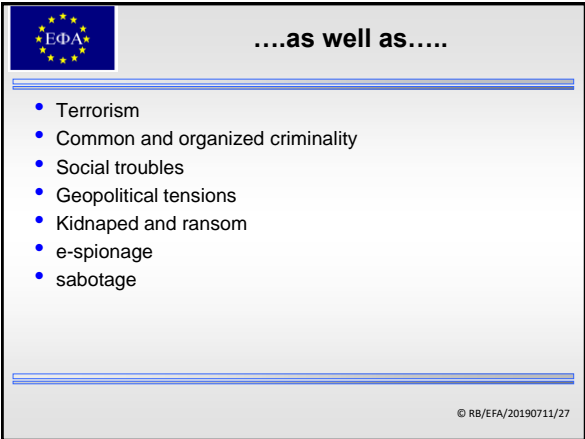
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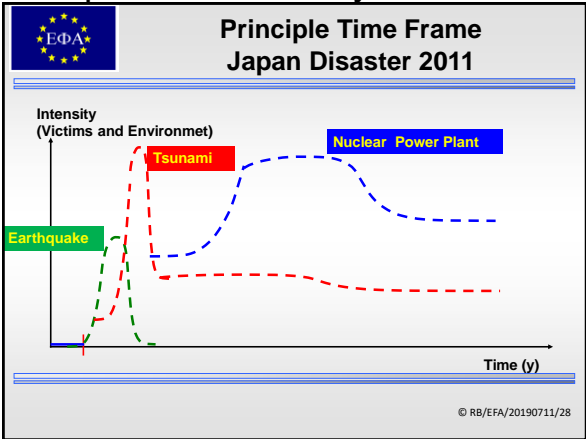
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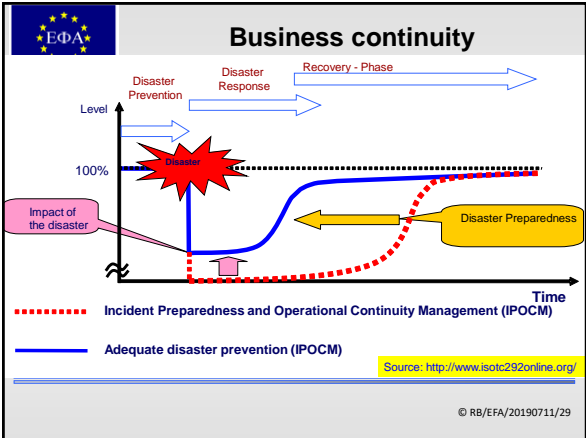
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**You need a plan to solve different questions!**

- What kind of risks?  
(Flash floods, earthquake, movements, hurricane, etc.)
- Vulnerable regions?  
(Surrounding of a chemical plant, nuclear power plant, etc.)
- Vulnerable groups of different persons?  
(elderly people, kids, ethnic groups, etc.)
- Capability of first responders?  
(quantity and quality)
- .....

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### Who is involved?

- Involved population
- Local emergency management
- Governmental organizations
- Non governmental organizations
- Different stakeholders
- Local, regional, national and international Companies
- Regional and national authorities
- Supporters
- Spontaneous volunteers
- .....

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### Business continuity

- International operating companies want an uniform frame work or guidance which could be used in case of an emergency worldwide.

- **Therefore, an international need exists in global standards!**

- The need of a shared international reference to help organizations to work together in the field of **Protective Security Management** (PCM)

Source: <http://www.isotc292online.org/>

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### Operational Activities in all Phases

Operational Continuity: Energy	Vital Functions
Operational Continuity: Health and Care Services	
Operational Continuity: Communication and Information	
Operational Continuity: Public Transport Services	
Operational Continuity: Good's Transport Services	
Operational Continuity: Financial Services	
Operational Continuity: Society's administrative Services	
Operational Continuity: Safety and Security Services	
Operational Continuity: Food and Drinking water supply	

Before incident

During incident

After incident

Phases

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### Topics of ISO / TC 292 Security and Resilience

- Authenticity, integrity and trust for products and documents
- **Business continuity management**
- Capability assessment
- Counterfeiting
- **Emergency management**
- Exercises
- **Incident management**
- Information exchange
- **Mass evacuation**
- Organizational resilience
- Private public partnerships

Source: <http://www.isotc292online.org/>

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### Topics of ISO / TC 292 Security and Resilience

- Private security services
- Public warning
- Supply chain security
- **Terminology**
- Video surveillance
- Volunteers

Source: <http://www.isotc292online.org/>

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### Scope of ISO / TC 292

- **Standardization in the field of security to enhance the safety and resilience of society.**
- Excluded: Sector specific security projects developed in other relevant ISO committees and projects developed in ISO/TC 262 and ISO/PC 278.
- Protective Security is the principles, framework, processes and actions implemented to respond to and reduce the risk of harm from malicious acts. (Malicious acts are those where there is the intention and capability to do harm).

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### Objectives of ISO / TC 292

- Assess the needs of the international community for standards to be developed within the scope of this committee – the approach will be demand driven by market needs and contributions from national standards bodies
- Ensure standards developed by TC are needed, practical, user friendly and capable of being integrated into other systems and practices
- Support the interests of public and private sectors in creating solutions through international standards – while respecting competing interests of stakeholders.

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### Objectives of ISO / TC 292

- Create standards that enhance awareness and capabilities to security and/or resilience of affected organizations and individuals.
- Develop standards that enhance national and international trade through increased reliability of supply chains and business interactions.
- **Develop standards which could provide requirements and guidance to entities that wish to manage security and resilience.**
- Develop standards that enhance organizations' agility, flexibility and adaptive capacity in an ever changing environment.

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### Objectives of ISO / TC 292

- Create a recognized and neutral body of work and expertise in a critical area of commerce and establish a forum of international expertise to build consensus focused solutions
- Leverage cooperation with other standardization organizations in developing comprehensive and effective solutions through standards.
- Compile terminology respecting the diverse disciplines within the scope of ISO/TC 292.
- Develop and maintain a comprehensive work programme and road map for all areas of standardization in ISO/TC 292.
- Regularly solicit feedback from end users.

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### ...from ISO / TC 223 to TC 292....

#### Security and Resilience

- In June 2014 the Technical management Board of ISO (TMB) took the decision to create a new ISO Technical committee called ISO/TC 292 where three committees were merged into one. The official starting date for the work of TC 292 was 2015-01-01, when the three committees ISO/TC 223 **Societal security**, ISO/TC 247 **Fraud countermeasures and controls** and ISO/PC 284 **Management system for quality of private security company (PSC) operations** were disbanded and their work incorporated into ISO/TC 292. The committee was also assigned the responsibility for the area of supply chain security, including the ISO 28000 series previously developed by ISO/TC 8.

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### ISO/TC 292 ☐

#### Security and Resilience

- 35 published ISO Standards (since 2005)
- 14 standards under development
- 49 participating members
- 16 observing members

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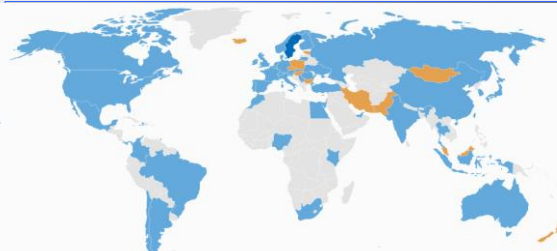
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### Members



Participating Members (49)

Secretariat : Sweden - Swedish Institute for Standards (SIS)

Observing Members (16)

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### 35 published ISO Standards

- ISO 22300:2018  
Security and resilience -- Vocabulary
- ISO 22301:2012  
Societal security -- **Business continuity management** systems -- Requirements
- ISO 22311:2012  
Societal security -- Video-surveillance -- Export interoperability
- ISO 22313:2012  
Societal security -- **Business continuity management** systems -- Guidance

Source: <http://www.iso232online.org/>

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### 35 published ISO Standards

- ISO 22315:2014  
Societal security -- Mass evacuation -- Guidelines for planning
- ISO 22316:2017  
Security and resilience -- Organizational resilience -- Principles and attributes
- ISO/TS 22317:2015  
Societal security -- **Business continuity management** systems -- Guidelines for business impact analysis (BIA)

Source: <http://www.iso232online.org/>

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### 35 published ISO Standards

- ISO/TS 22318:2015  
Societal security -- **Business continuity management** systems -- Guidelines for supply chain continuity
- ISO 22319:2017  
Security and resilience -- Community resilience -- Guidelines for planning the **involvement of spontaneous volunteers**
- ISO 22320:2018  
Security and resilience -- Emergency management -- **Guidelines for incident management**

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### 35 published ISO Standards

- ISO 22322:2015  
Societal security -- Emergency management --  
**Guidelines for public warning**
- ISO 22324:2015  
Societal security -- Emergency management -- Guidelines  
for colour-coded alerts
- ISO 22325:2016  
Security and resilience -- Emergency management --  
Guidelines for capability assessment

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### 35 published ISO Standards

- ISO 22326:2018  
Security and resilience -- Emergency management --  
Guidelines for monitoring facilities with identified hazards
- ISO 22327:2018  
Security and resilience -- Emergency management --  
Guidelines for implementation of a **community-based  
landslide early warning system**
- SO/TS 22330:2018  
Security and resilience -- **Business continuity  
management** systems -- Guidelines for people aspects of  
business continuity

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### 35 published ISO Standards

- ISO/TS 22331:2018  
Security and resilience -- Business continuity  
management systems -- Guidelines for business  
continuity strategy
- ISO/TR 22351:2015  
Societal security -- Emergency management -- Message  
structure for exchange of information
- ISO/TS 22375:2018  
Security and resilience -- Guidelines for complexity  
assessment process

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### 35 published ISO Standards

- ISO 22380:2018  
Security and resilience -- Authenticity, integrity and trust for products and documents -- General principles for product fraud risk and countermeasures
- SO 22381:2018  
Security and resilience -- Authenticity, integrity and trust for products and documents -- Guidelines for establishing interoperability among object identification systems to deter counterfeiting and illicit trade

Source: <http://www.iso22380online.org/>

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### 35 published ISO Standards

- ISO 22382:2018  
Security and resilience -- Authenticity, integrity and trust for products and documents -- Guidelines for the content, security, issuance and examination of excise tax stamps
- ISO 22395:2018  
Security and resilience -- Community resilience -- Guidelines for **supporting vulnerable persons** in an emergency
- ISO 22397:2014  
Societal security -- Guidelines for establishing partnering arrangements

Source: <http://www.iso22382online.org/>

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### 35 published ISO Standards

- ISO 22398:2013  
Societal security -- Guidelines for exercises
- ISO 28000:2007  
Specification for security management systems for the supply chain
- SO 28001:2007  
Security management systems for the supply chain -- Best practices for implementing supply chain security, assessments and plans -- Requirements and guidance

Source: <http://www.iso22398online.org/>

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### 35 published ISO Standards

- ISO 28002:2011  
Security management systems for the supply chain --  
Development of resilience in the supply chain --  
Requirements with guidance for use
- ISO 28003:2007  
Security management systems for the supply chain --  
Requirements for bodies providing audit and certification  
of supply chain security management systems

Source: <http://www.iso28000online.org/>

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### 35 published ISO Standards

- ISO 28004-1:2007  
Security management systems for the supply chain --  
Guidelines for the implementation of ISO 28000 -- Part 1:  
General principles
- ISO 28004-3:2014  
Security management systems for the supply chain --  
Guidelines for the implementation of ISO 28000 -- Part 3:  
Additional specific guidance for adopting ISO 28000 for  
use by medium and small businesses (other than marine  
ports)

Source: <http://www.iso28000online.org/>

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### 35 published ISO Standards

- ISO 28004-4:2014  
Security management systems for the supply chain --  
Guidelines for the implementation of ISO 28000 -- Part 4:  
Additional specific guidance on implementing ISO 28000  
if compliance with ISO 28001 is a management objective

Source: <http://www.iso28000online.org/>

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### 35 published ISO Standards

- ISO 12931:2012  
Performance criteria for authentication solutions used to combat counterfeiting of material goods
- ISO 16678:2014  
Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade
- ISO 18788:2015  
Management system for **private security operations** -- Requirements with guidance for use

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### 14 standards under development

- ISO/NP 22300 [Under development]  
Security and resilience -- Vocabulary
- ISO/DIS 22301 [Under development]  
Security and resilience -- Business continuity management systems -- Requirements
- ISO/DIS 22313 [Under development]  
Security and resilience -- Business continuity management systems -- Guidance

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### 14 standards under development

- ISO/DIS 22328-1 [Under development]  
Security and resilience -- Emergency management -- **Community-based disaster early warning system** -- Part 1: Guidelines for implementation of a community-based disaster early warning system
- ISO/AWI 22329 [Under development]  
Security and resilience -- Emergency management -- **Guidelines for the use of social media in emergencies**

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14 standards under development

- ISO/AWI TS 22332 [Under development]  
Security and resilience -- Business continuity management systems -- Guidance for developing business continuity procedures
- ISO/WD 22340 [Under development]  
Security and resilience -- Protective security -- Architecture, framework and guidelines
- SO/CD 22341 [Under development]  
Security and resilience -- Protective security -- Guidance for security and crime prevention by urban design and management

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14 standards under development

- ISO/AWI 22342 [Under development]  
Security and resilience -- Protective security -- Guidelines for the development of a security plan for an organization
- ISO/DTR 22370 [Under development]  
Security and resilience -- Framework and principles for urban resilience
- ISO/CD 22383 [Under development]  
Security and resilience -- Authenticity, integrity and trust for products and documents -- Performance criteria for authentication solutions used to ensure genuineness and integrity of material goods

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14 standards under development

- ISO/CD 22384 [Under development]  
Security and resilience -- Authenticity, integrity and trust for products and documents -- Guidelines to establish and monitor a protection plan and its implementation
- SO/DIS 22392 [Under development]  
Security and resilience -- Community resilience -- Guidelines for conducting peer reviews
- ISO/DIS 22396 [Under development]  
Security and resilience -- Community resilience -- **Guidelines for information exchange between organizations**

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### New working proposal 2019

- **ISO/NP 22379**  
**Guidelines for hosting and organizing large citywide events**

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### Working Groups

- ISO/TC 292/CG  
Communication group
- ISO/TC 292/DCCG  
Developing Countries Cooperation Group
- ISO/TC 292/UNCG  
UN Cooperation Group

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### Working Groups

- ISO/TC 292/WG 1  
Terminology
- ISO/TC 292/WG 2  
Continuity and organizational resilience
- ISO/TC 292/WG 3  
Emergency management
- ISO/TC 292/WG 4  
Authenticity, integrity and trust for products and documents

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### Working Groups

- ISO/TC 292/WG 5  
Community resilience
- ISO/TC 292/WG 6  
Protective security
- ISO/TC 292/WG 8  
Supply chain security
  
- ISO/TC 262/JWG 1  
Joint **ISO/TC 262** - ISO/TC 292  
WG: Managing emerging risk

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### Goals in Protective Security Management (PCM)

- A guarantee of an **independent and international reference** better than a variety of fuzzy practices
- The same level of **competencies for all countries**, helping worldwide economic development
- An help for the protection and development **for all kind of organizations**, even small and not able to afford a security department

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### Approach in Protective Security Management (PCM)

- Such a standard should **not** intend to be a technical management system but should consist in requirements to be implemented by any organization in the aim of guarantying the security ina very operational way
- To respond to its objective of independence and global concern, the standards should integrate the conformity assessment and the question of the certification.
- As the requirements provided in the standard are supposed to be applied by **any kind of organization**, they should be limited to the common basis and the conformity assessment should be rapid and cost effective.

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Thank you!

I am ready!

I am glad about  
the following  
Discussion!

Prof. Dr.-Ing. Peer Rechenbach  
Email: rechenbach@t-online.de

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