

INSPIRE

Themenbereich
„Natürlich bedingte Risikozonen“ –
Rückmeldung und Test

Dr. Dominik Ehret

LGRB Baden-Württemberg



Modifizierte Klassifizierung erster Ebene

Alt

1 **geophysical**

- 1 earthquake
- 2 volcano

3 **dry mass movement**

2 **hydrological**

- 1 flood

2 **wet mass movement**

3 **meteorological**

- 1 storm

4 **climatological**

- 1 extreme temperature
- 2 drought
- 3 wildfire

NEU

1 **geohazards**

- 1 earthquakes
- 2 volcanism
- 3 natural gas emanations
- 4 mass movements
- 5 karst/subrosion
- 6 problematic soil and rock

2 **hydrological**

- 1 flood

3 **meteorological**

- 1 storm

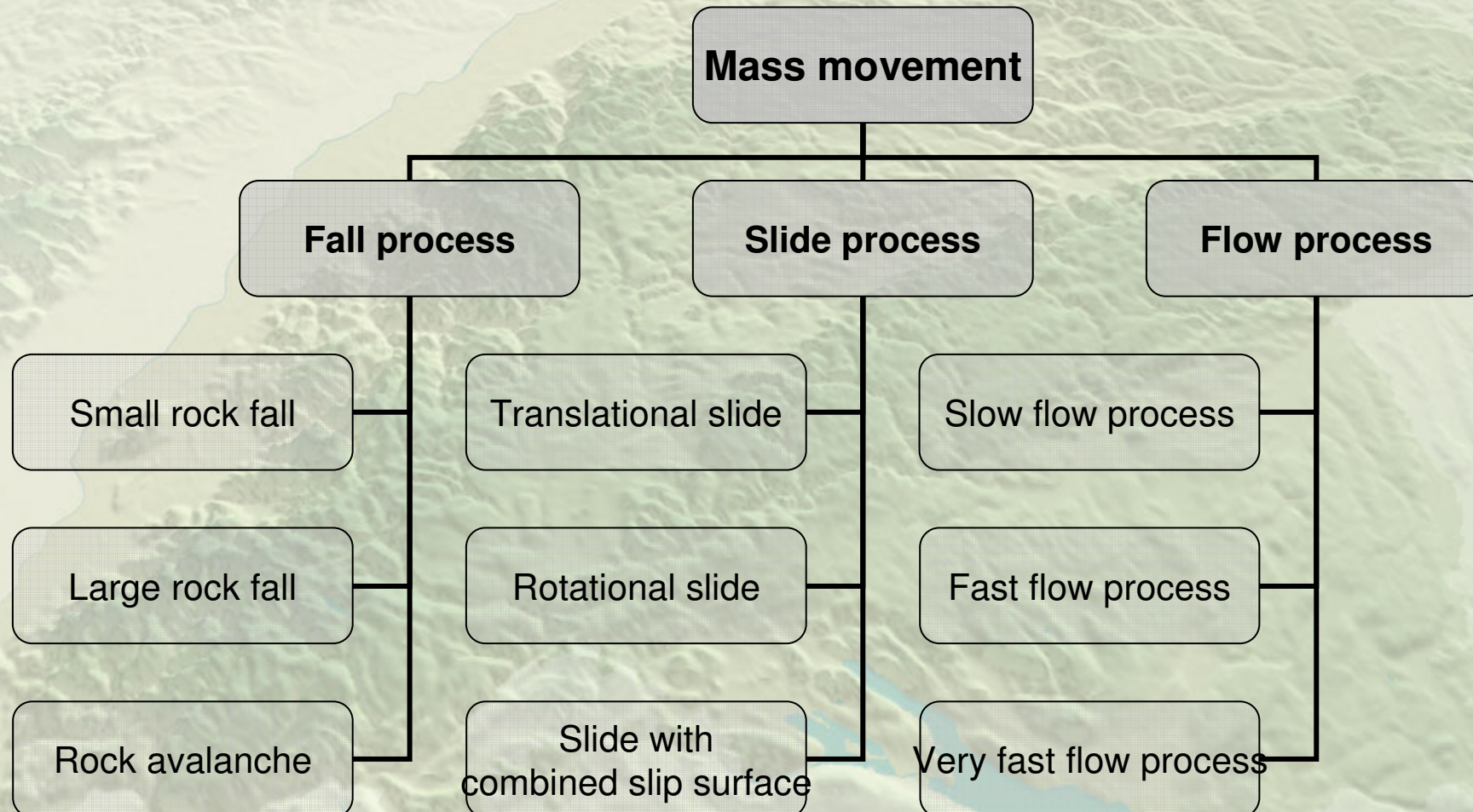
4 **climatological**

- 1 extreme temperature
- 2 drought
- 3 wildfire

Modifizierte Klassifikation - Definitionen

Value	Definition
1. Geohazards	“Events caused by geological conditions or processes which represent serious threats to human lives, property and the natural and built environment.” (Solheim et al., 2005)
1.1 Earthquakes	Any natural phenomenon, such as ground shaking or ground failure, that is associated with an earthquake and which represents serious threats to human lives, property and the natural and built environment.
1.2 Volcanism	Any natural phenomenon, such as lava flows or pyroclastic flows, that is associated with volcanism and which represent serious threats to human lives, property and the natural and built environment.
1.3 Natural gas emanations	Any natural phenomenon that is associated with natural gas emanations, such as methane, radon or CO ₂ , and which represents serious threats to human lives, property and the natural and built environment.
1.4 Mass movements	Any natural phenomenon, such as landslides or rock falls, that is associated with mass movements and which represents serious threats to human lives, property and the natural and built environment.
1.5 Karst/Subrosion	Any natural phenomenon, such as sinkholes/dolines, that is associated with karst or subrosion and which represents serious threats to human lives, property and the natural and built environment.
1.6 Problematic soils and rocks	Any natural phenomenon, such as collapse or expansion, that is associated with problematic soils and rocks and which represents serious threats to human lives, property and the natural and built environment.

Klassifizierung zweiter Ebene (Bsp.)



Test

Getestete GeoLA-Datensätze

- **Massenbewegungen**
 - Hinweis auf frühere Massenbewegungen (aus DGM abgeleitet)
 - Gebiete, die potentiell durch Massenbewegungen gefährdet sind (modelliert)
- **Dolinen/Erdfälle**
 - Hinweis auf Dolinen/Erdfälle (aus DGM, GK, TK abgeleitet)
- **Verkarstung**
 - Gebiete, die potentiell durch Verkarstung gefährdet sind (modelliert)
- **Setzungen/Hebungen**
 - Gebiete, die potentiell durch Setzungen/Hebungen gefährdet sind (modelliert)

Transformation GeoLA => INSPIRE (*Bsp.*)

INSPIRE-Attribute	No.	Page	GeoLA	Comment
ExposedElements	5.3.1.1.1	31		
HazardArea	5.3.1.1.2	33		
ModelledOrDeterminedHazard	5.3.1.1.3	34		
ObservedHazard	5.3.1.1.4	35		
RiskZone	5.3.1.1.5	35		
DocumentReference	5.3.1.2.1	38		
LevelOfHazard	5.3.1.2.2	38		
LevelOfRisk	5.3.1.2.3	39		
LikelihoodOfOccurrence	5.3.1.2.4	40		
NaturalRiskOrHazardClassification	5.3.1.2.5	41		
QuantitativeLikelihood	5.3.1.2.6	41		
contactInformation	5.3.1.2.7	41		

Test – Transformation (Bsp.)

1st level	Multi- plicity	voi- dable	4th level	Multi- plicity	voi- dable	Result
beginLifespanVersion	1	yes				
endLifespanVersion	0..1		address	1	yes	Albertstr. , 79104 FR, Germany
geometry	1		individualName	1	yes	
inspireID	1		onlineRessource	1	yes	www.lgrb.uni-freiburg.de
levelOfHazard	1		organisationName	1	yes	RP FR, Abtlg. 9
			phone	1	yes	+49 / 761 / 208-3000

2nd level	Multi- plicity	voi- dable	Result
qualitativeValue	1	yes	1) Possible mass movement hazard. [OA 5350] 2) Evidence for mass movement. [OA 5300]
quantitativeLevelHazardAssessmentMethod	1	yes	

2nd level	Multi- plicity	voi- dable	Result
riskOrHazardCategory	1	no	Mapping not possible: Classification of mass movements in DryMassMovements (geophysical) or WetMassMovements (hydrological) is not applicable.
specificRiskOrHazardType	1	yes	

Transformation GeoLA => INSPIRE (Bsp.)

INSPIRE-Attribute	No.	Page	GeoLA	Comment
ExposedElements	5.3.1.1.1	31	n/a	
HazardArea	5.3.1.1.2	33	X	Mapping not possible: NaturalRiskOrHazardClassification is not applicable.
ModelledOrDeterminedHazard	5.3.1.1.3	34	√	
ObservedHazard	5.3.1.1.4	35	n/a	
RiskZone	5.3.1.1.5	35	n/a	
DocumentReference	5.3.1.2.1	38	√	
LevelOfHazard	5.3.1.2.2	38	(√)	Just three levels: 1) possible mass movement hazard; 2) evidence for mass movement; 3) no evidence for mass movement and mass movement unlikely
LevelOfRisk	5.3.1.2.3	39	n/a	
LikelihoodOfOccurrence	5.3.1.2.4	40	n/a	
NaturalRiskOrHazardClassification	5.3.1.2.5	41	X	Mapping not possible: Classification of mass movements in DryMassMovements (geophysical) or WetMassMovements (hydrological) is not applicable.
QuantitativeLikelihood	5.3.1.2.6	41	n/a	
contactInformation	5.3.1.2.7	41	√	