'To LAW or to SLOW'

Dušan SAKULSKI, Ph.D.

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Making Disaster Risk Management (DRM) Sustainable

Disaster-related attitude

- If national disaster-related regulation exists
- It is (usually) Civil Protection driven
- It is (in its nature) reactive
- It is (mostly) focused on emergency services
- It is inter-institutionally (vertically and horizontally) <u>uncoordinated</u>

- Intensive media coverage (role of media?)
- Global (usually uncoordinated) response
- Terabytes of satellite images
- "Flood" of the Hi-Tech solutions (buoys, computer models, …)
- …
- … and after some time
- … attention turns to some other events

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Common definitions

- The Problem:

- In multi-disciplinary research in general and disaster reduction in particular **there are often no common definitions or concepts**.

- Hence, there is **lack of mutual understanding** and communication is difficult.

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Core terminology of disaster risk management

- <u>A first step towards common concepts:</u>

- Definitions of terms have simultaneously and homogeneously grown in many disciplines. But **multi-disciplinarity often results in the same term being defined in different ways by the various disciplines involved**.

- In order to enable collaboration and communication free of misunderstanding it is crucial to make the different definitions known across the disciplines and, in the long-term, to facilitate the emergence of a common vocabulary and preferably of unique, well formulated definitions and concepts.

Flying low in Africa?

http://go.funpic.hu

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Sustainable disaster risk management

How to build sustainable disaster risk management?

Four parallel "roads":

- Legislation

- Inter-institutional (horizontal and vertical) coordination

- Sensible and sustainable technology

- DM education (professionals and public awareness), and research

South African achievements

South African **Disaster Management Act**, No. 57 of 2002, on 15 January 2003:

- An integrated and coordinated disaster management (umbrella) policy
- Focusing on prevention and disaster risk reduction
- National, provincial, district and municipal disaster management centres / offices

South African achievements

National **Disaster Management Framework** as the legal instrument, specified by the Act, comprises 4 KPAs and *3 Enablers*:

1. Integrated institutional capacity for DRM
2. Disaster risk assessment
3. Disaster risk reduction
4. Response and recovery
–   *Information management and communication*
–   *Education, training, public awareness and research*
–   *Funding arrangements*

1. Integrated institutional capacity for DRM

- Arrangements for the development and adoption of **integrated disaster risk management policy**.

- Arrangements for integrated **direction and implementation** of disaster risk management policy.

- Arrangements for **stakeholder participation** and the engagement of **technical advice** in disaster risk management planning and operations.

- Arrangements for **national**, **regional** and **international co-operation** for disaster risk management.

2. Risk assessment and monitoring

- Disaster risk assessment and risk reduction planning.

- Generating a National **indicative disaster risk profile**.

- Monitoring, updating and disseminating risk information.

- Conducting quality control

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3. Disaster risk reduction

- Disaster risk management planning.
- **Setting priorities** for disaster risk management planning.
- **Scoping and development** of disaster risk reduction plans, projects and programmes.
- **Inclusion** of disaster risk reduction efforts in other structures and processes.
- **Implementation and monitoring** of disaster risk reduction programmes and initiatives.

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4. Response and recovery

- Early warnings.

- Assessment, classification, declaration and review of a disaster.

- Integrated response and recovery.

- Relief measures.

- Rehabilitation and reconstruction.

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Enabler 1: Information management and communication

- **Establishing** an information management and communication system.

- **Integrated** information management and communication **model**.

- **Data** acquisition.

- Information management and communication **support** for key performance areas and enablers.

- Specialised system functionalities.

- **Development** of an integrated information management and communication **system**.

- Information **dissemination**.

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Enabler 2: Education, training, public awareness and research

- National education, training and research **needs and resources analysis**.

- National disaster risk management education and training **framework**.

- Disaster risk management **education**.

- **Training** programmes for disaster risk management.

- **Creating awareness**, promoting a culture of risk avoidance and establishing good media relations.

- **Research programme** and information and advisory services.

Enabler 3: Funding arrangements

- **Legislative framework** for funding arrangements.

- **Principles** underpinning funding arrangements.

- **Overview** of funding arrangements.

South African achievements

Social aspects of disaster risk management

The Act makes provision for disaster risk management through:

- The urgent integration of risk reduction strategies into all sustainable development initiatives.

- The development of a strategy to reduce vulnerability, especially poor and disadvantaged communities.

How to build sustainable disaster risk management?

Four parallel "roads":

- Legislation
- Inter-institutional (horizontal and vertical) coordination
- Sensible and sustainable technology
- DM education (<u>professionals</u> and public awareness), and research

Inter-institutional coordination

NATIONAL SPHERE		
INTER-GOVERNMENTAL COMMITTEE ON DISASTER MANAGEMENT (ICDM) (Established by the President)	**NATIONAL DISASTER MANAGEMENT ADVISORY FORUM (NDMAF)** (Established by the Minister)	**NATIONAL DISASTER MANAGEMENT CENTRE (NDMC)** (Established by the Act.
• Cabinet members •MECs •SALGA •Other role players	• Head of the NDMC • National Departments • Local Government • Experts in disaster management • Other	• Minister to appoint the Head of the NDMC • *See powers and duties.*

Similar structures on provincial and municipal level

Inter-institutional coordination

The **National Disaster Management Centre** (NDMC) has been constituted with the objective

- to promote an integrated and coordinated system of disaster management,

- with a special emphasis on prevent and mitigation,

- by national, provincial and municipal organs of state, statutory functionaries, other role players and communities.

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Inter-institutional coordination

- NDMC Mission is:

- To develop and maintain an effective National Disaster Management Information System (NDMIS).
- To develop and maintain early warning systems.
- To develop a national disaster management framework.
- To assist with capacity building and training.
- To develop and maintain an integrated, effective and efficient emergency response service.
- To encourage research and analysis of disaster occurrences.
- To monitor and evaluate the performance on disaster management.
- To keep, maintain and update databases.
- To develop a vulnerability atlas.

Inter-institutional coordination

Seamless data and information integration between:

- National Disaster Management Centre (NDMC)
- National Department of Water Affairs and Forestry (DWAF)
- National Department of Health (DoH)
- National Department of Agriculture (DoA)
- National Department of Environmental Affairs and Tourism (DEAT)
- South African Weather Service (SAWS)
- South African Police Service (SAPS)
- Satellite Application Centre (SAC)

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Sustainable disaster risk management

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Sustainable disaster risk management

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- Sensible and sustainable technology
- DRM education, training, public awareness and research

Disaster risk management **education**

- Education for disaster risk management professionals (NQF levels 5–8)

- Education for practitioners in professions associated with disaster risk management (NQF levels 5–8)

- Integration of disaster risk reduction education into primary and secondary school curricula (NQF levels 1–4)

- Responsibility for the development of accredited education programmes

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Creating awareness, promoting a culture of risk avoidance and establishing good media relations

- Integrated public awareness strategy

- Schools

- Role of the media

- Responsibility for an integrated public awareness strategy

Research programme and information and advisory services

- Research

- Information provision

- Advisory service

- Responsibility for establishing a research programme and information and advisory services

- To promote DM legislation

- To encourage inter-institutional (horizontal and vertical) DM coordination

- To assist sensible and sustainable implementation of technology for DM

- To actively participate in development of DM curricula to educate DM professionals (undergraduate and postgraduate levels), as well as in form of public awareness

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South African Institutions:

- National Disaster Management Centre

- Department of Water Affairs and Forestry

- Department of Agriculture

- Department of Health

- Satellite Application Centre

- South African Universities