

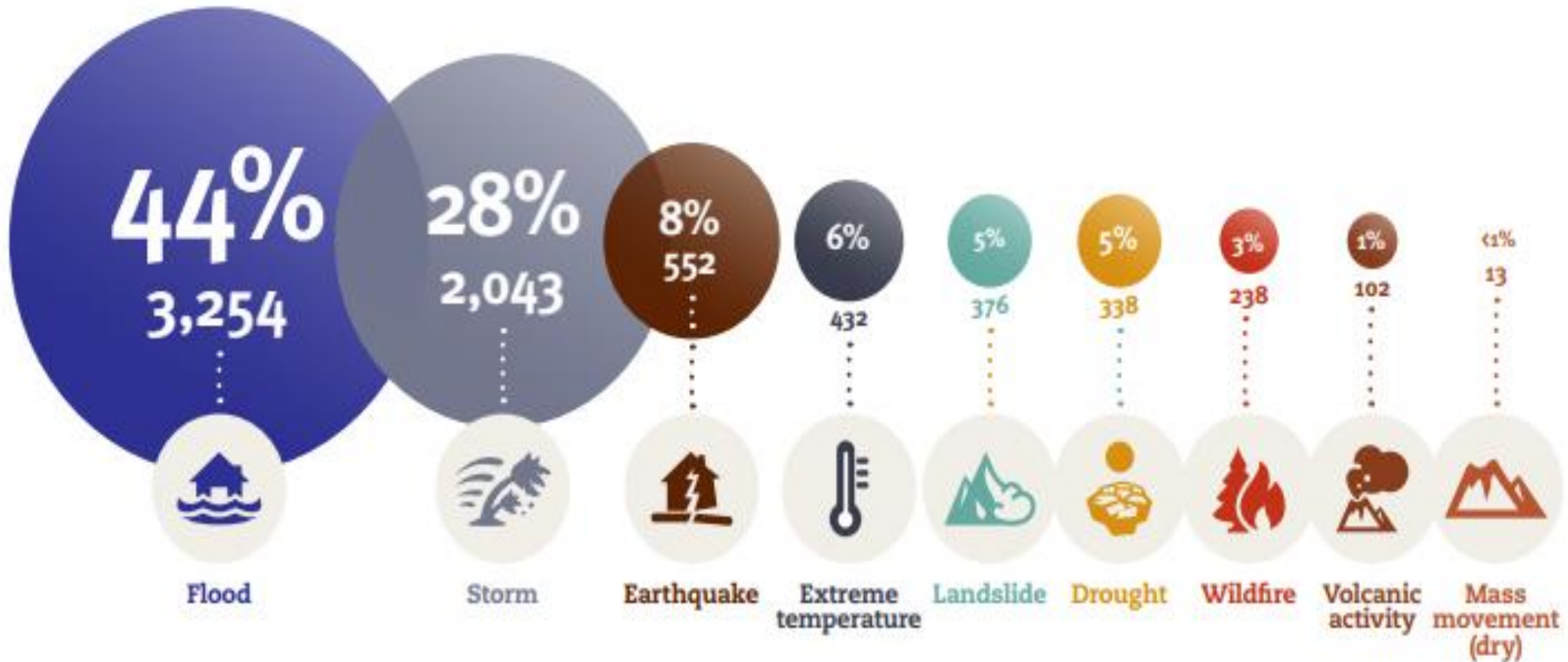


Earthquake Response Issues for Consideration

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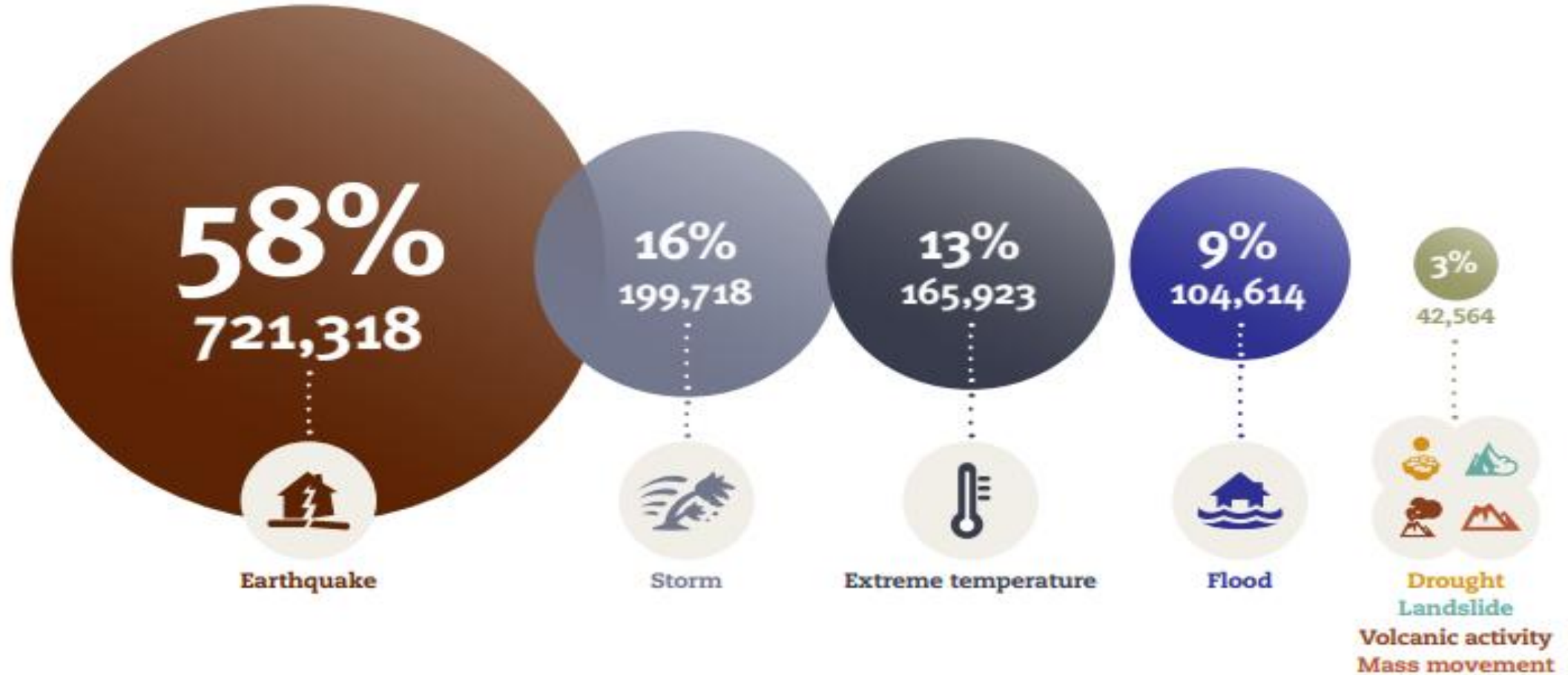
Percentage of occurrences of disasters by disaster type (2000-2019)



Source : UNDRR report on Human Cost Of Disasters 2000-2019



Total number of deaths by disaster type (2000-2019)



Source : UNDRR report on Human Cost Of Disasters 2000-2019



Lessons Learnt from Past Earthquakes

1. Structural Integrity is critical
2. Robust DM Plan
3. Rapid Response – Golden period
4. Inter-Agency Coordination
5. Community-Led Preparedness
6. Logistics
7. Medical aid – surge capacity
8. Communication
9. Secondary hazards & complications





Action Points for Consideration

1. Seismic Risk Assessment – Critical Infrastructure
2. DM Plan – Updation to cover gaps
3. Requirement of Response Teams – NDRF/SDRF/Fire & Emergency Services, Police, Army, CAPFs
4. Resource/ Logistics availability & placement
5. Inter-State mobilization of manpower & logistics
6. Role of Community/NYK Volunteers/Aapda Mitras/NGOs
7. Close co-ordination by State with EWAs



Action Points for Consideration

08. Readiness of State Agencies/Line Dept
09. Inter Agency Co-ordination – IRS, Unified Command, RO/IC.
10. Communication network - Activation of ICR-ER/SEOC/DEOC
11. Field Hospitals & Medical Camps
12. Dead Body Management
13. Relief Camps/Shelters, Storage & Distribution Plan
14. Protocols – Traffic/Media/Visit of dignitaries/handling of tourists



Analysis of SDRF USAR Teams - Manpower

Satisfactory

Jammu & Kashmir (1198)
Gujarat (1103)
Bihar (1031)
Telangana (1200)
Tamil Nadu (926)
Rajasthan (836)
Odisha (723)
West Bengal (694)
Haryana (674)
Assam (654)
Madhya Pradesh (596)
Tripura (560)
Mizoram (540)
Andhra Pradesh (425)
Andaman & Nicobar
(364)
Nagaland (240)
Puducherry (222)

May be enhanced

Uttar Pradesh (713)
Uttarakhand (688)
Himachal Pradesh (201)
Maharashtra (285)
Sikkim (285)
Goa (269)
Karnataka (231)
Chhattisgarh (197)
Manipur (163)
Arunachal Pradesh(136)
Kerala (100)
Lakshadweep (85)
Meghalaya (83)
Jharkhand (57)
Ladakh (49)
Punjab (42)

Request to Raise

Chandigarh -NIL
Delhi – NIL
Daman Diu & DNH - NIL



Analysis of SDRF USAR Teams - Equipment

Satisfactory

Uttarakhand
Uttar Pradesh
Jammu & Kashmir
Odisha
Bihar
West Bengal
Assam
Gujarat
Mizoram
Meghalaya
Tripura
Kerala

May be enhanced

Andhra Pradesh
Andaman & Nicobar
Arunachal Pradesh
Chhattisgarh
Goa
Haryana
Lakshadweep
Madhya Pradesh
Manipur
Puducherry
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Karnataka
Maharashtra
Nagaland

May be Equipped

Chandigarh
Daman & Div, DNH
Delhi
Himachal Pradesh
Jharkhand
Ladakh



Training Centres of SDRF



- ✓ Odisha
- ✓ Haryana
- ✓ Chhattisgarh
- ✓ Tamil Nadu
- ✓ Gujarat
- ✓ Maharashtra
- ✓ Uttar Pradesh
- ✓ Bihar
- ✓ Andhra Pradesh
- ✓ Manipur
- ✓ Nagaland
- ✓ J&K





Canines in SDRF

- Gujarat
- Uttarakhand
- Uttar Pradesh
- Kerala
- Odisha





Suggestions on Response Aspects

1. Earmarking of dedicated SDRF USAR teams
2. Placement of Specialized Teams in Urban Centres
3. Training of Fire Services in CSSR for surge capacity
4. Equipment upgradation
5. Canine and Technical search capability
6. Mock Exercises – Departure from routine
7. Trained Volunteers – Meaningful presence
8. Inter-State deployment – States in Aid of States



Thank You

