Great East Japan Earthquake and Tsunami (GEJET) is a typical case of chain reactions of disasters. The physical impacts expanded from earthquake to tsunami and tsunami to nuclear meltdown. Tsunami destructed buildings, properties, utilities and lands. Chain of reactions developed from electricity, water and traffic to retail markets, customers’ behavior, industrial activities, health, education and so on. Electricity failure stopped cooling system of nuclear plants and radioactive materials spread to environment contaminating agricultural and aquatic products. Thus societal impacts expanded from local to region, region to nation and nation to international. The key to prevent concatenation of risks is in increasing safety in a safe-fail manner in all aspects of societal system.