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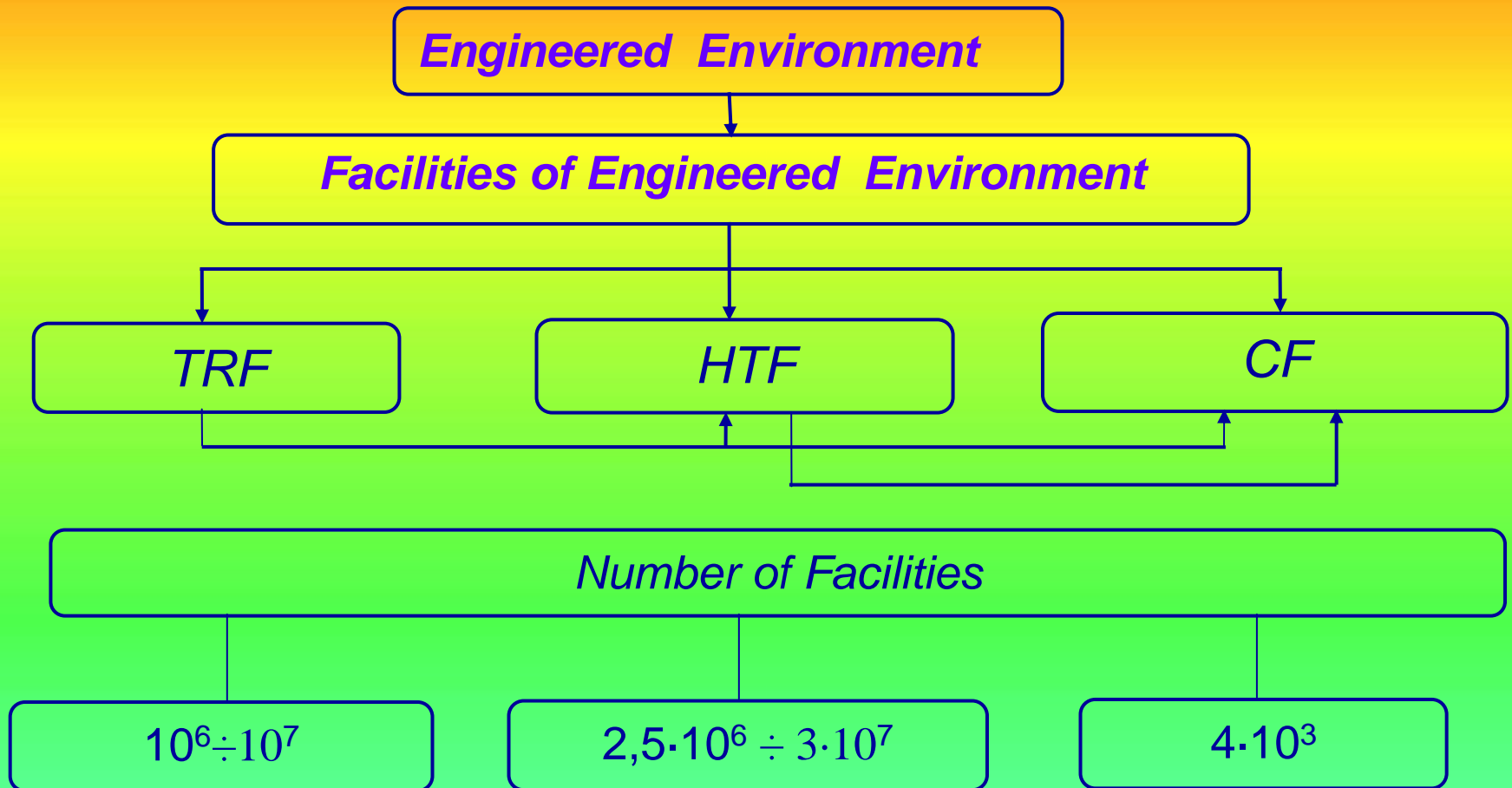
**Multivariant Risk Analysis of Critical
Facilities and Infrastructures in Russia**

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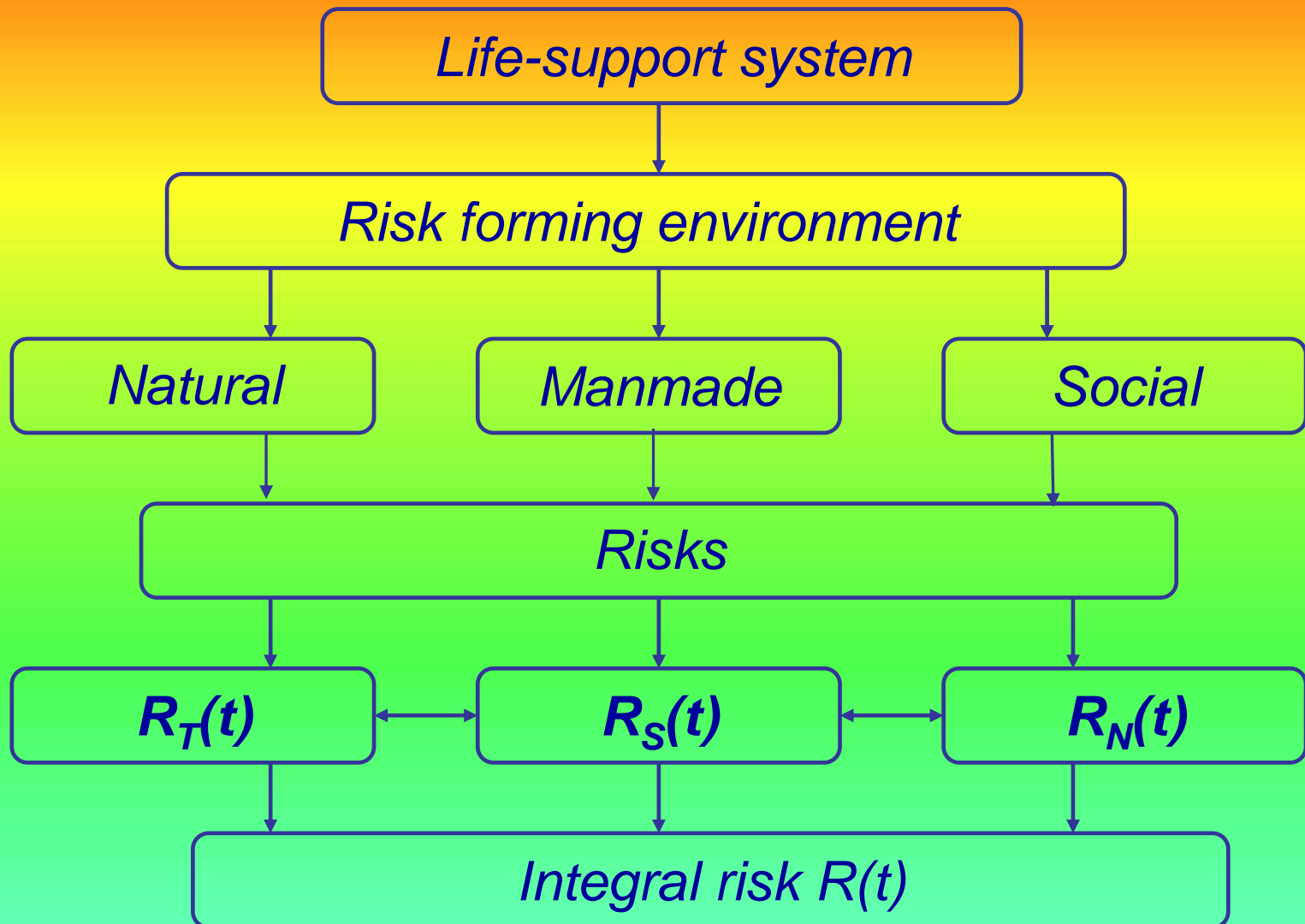
The Structure of Basic and Applied Risk Related Research in Russia



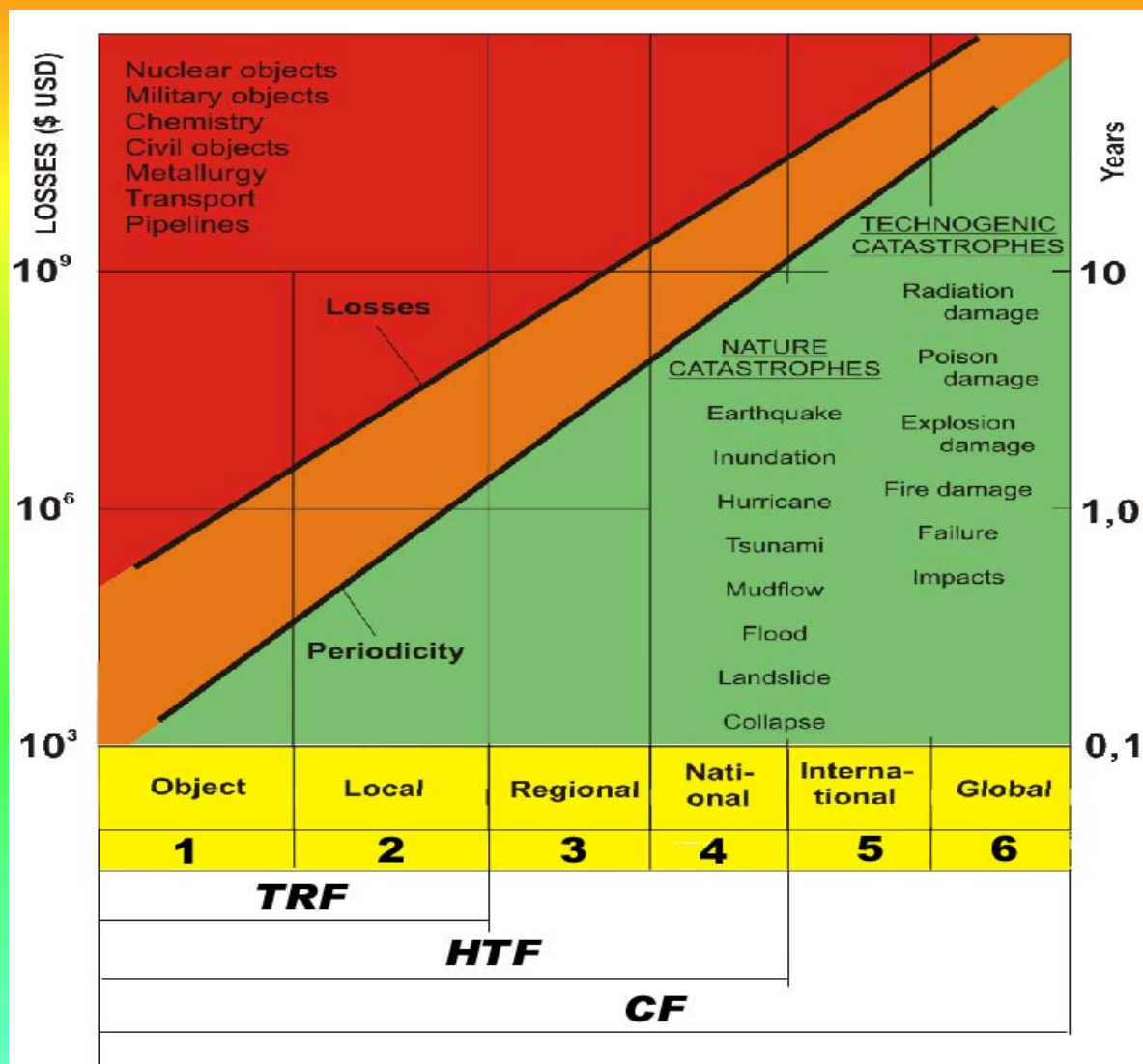
General Structure of Engineered Environment



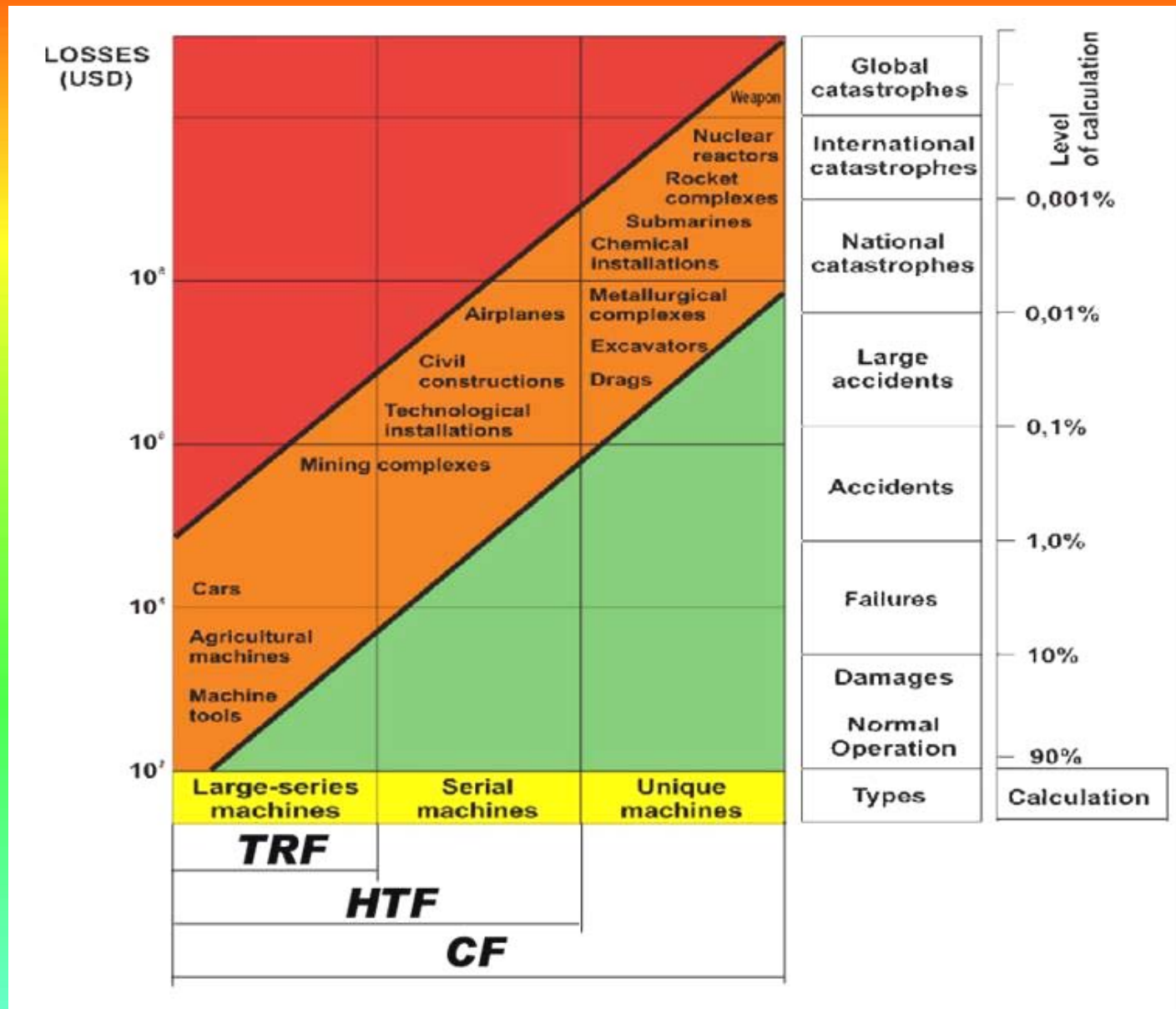
Risk Formation Diagram



Losses and Risks Inflicted by One Catastrophe of a Specific Type



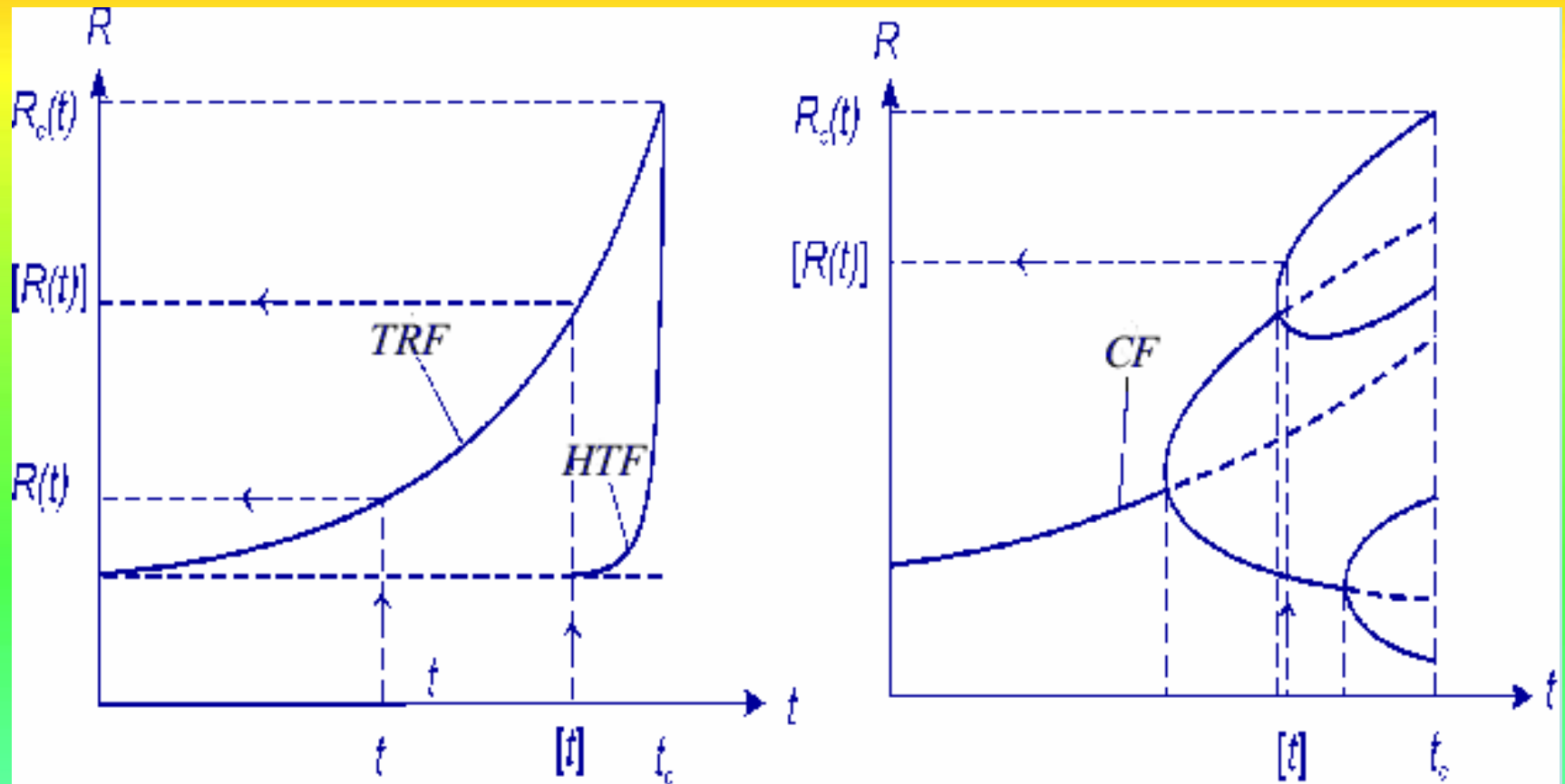
Losses Inflicted by One Catastrophe



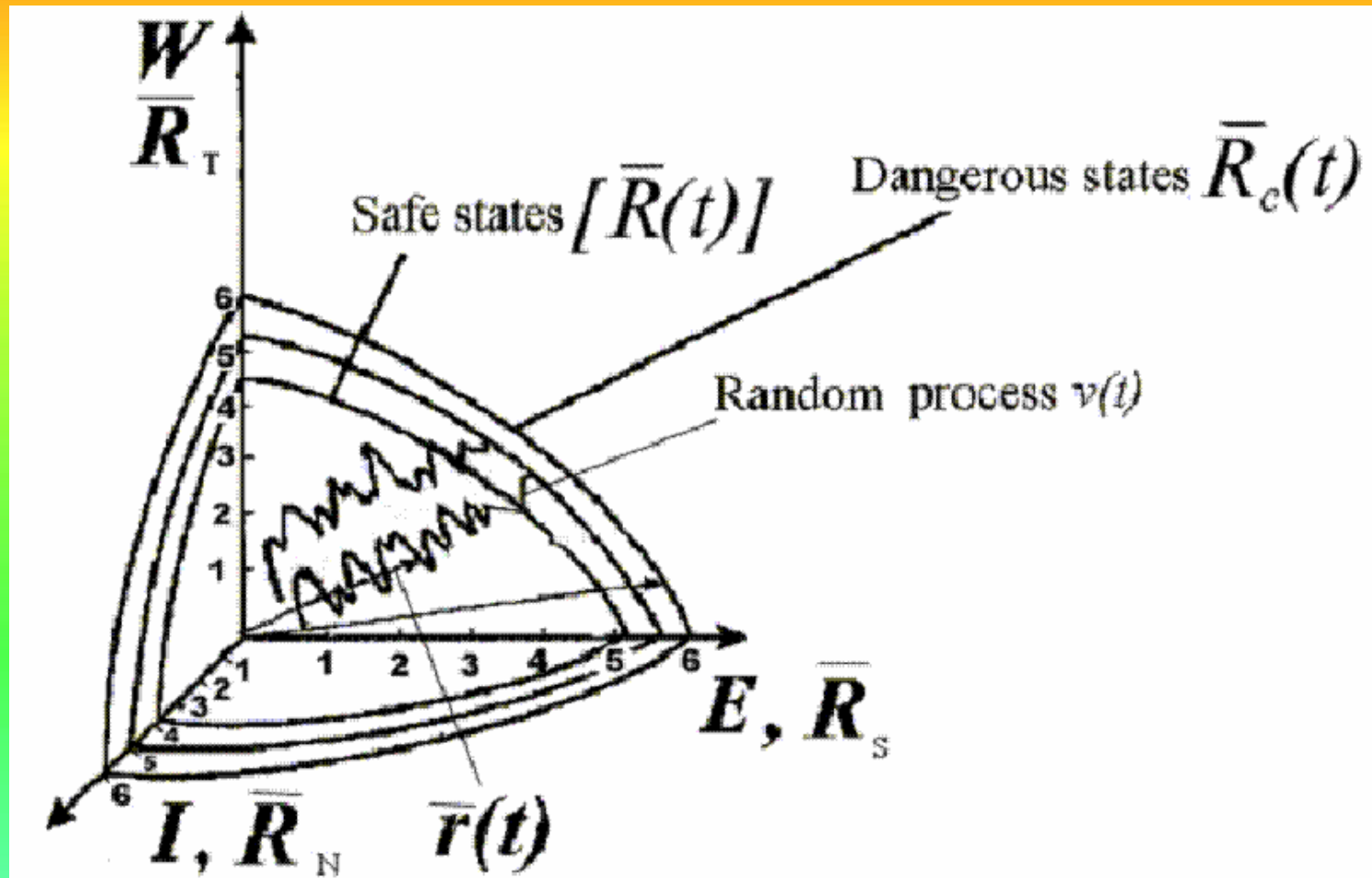
Initial and Secondary Damaging Factors



Dynamic Risk Scales



Limit Surfaces of Safe and Dangerous States



Probability of severe catastrophes at critical facilities

No	Facility type		Predicted probability		Actual probability
			Designed catastrophe	Not designed catastrophe	
1	Reactors	Core region	10^{-6}	10^{-8}	$2 \cdot 10^{-3}$
		Primary coolant circuit	10^{-5}	10^{-6}	$5 \cdot 10^{-3}$
2	Space-missile systems		10^{-4}	10^{-3}	$5 \cdot 10^{-2}$
3	Turbounits		10^{-3}	10^{-4}	$3 \cdot 10^{-3}$
4	Airborne vehicles		10^{-3}	10^{-4}	$5 \cdot 10^{-3}$
5	Trunk pipelines		10^{-4}	$2 \cdot 10^{-3}$	10^{-2}