

Contemporary Risk Leadership

Objective

- Improve risk-skills
- Share perceived problem
- Better risk management
- Invite contributions

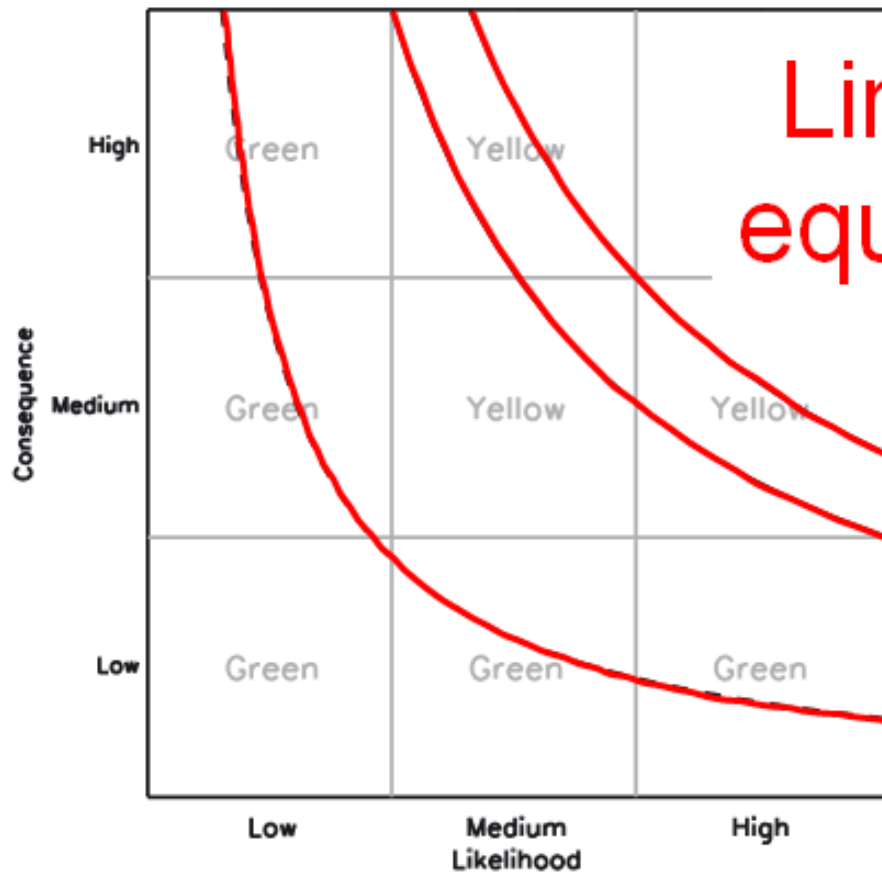
ROE

- Academic Exercise
- Primacy of
“your-Company-policy”

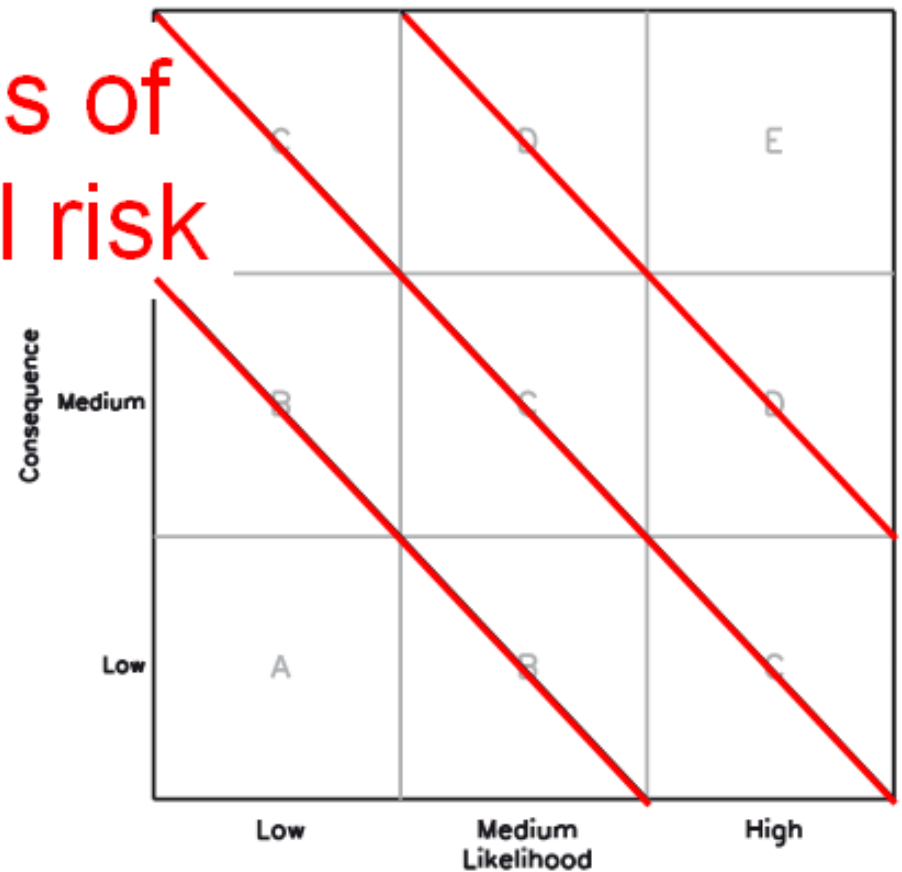
FT Risk Tool Survey

- 2D matrices
- Risk register
- Nomogram
- Bow-Tie
- Time Safety Margin

2D Matrices



Lines of equal risk



Risk Register

You can also view these risks in the issue navigator.

Key	Summary	Status	Original Exposure	Residual Exposure	Treatment
ABC-4	Changes in priorities of senior management	TREATED	CATASTR...	HIGH	Mitigate
ABC-3	Volume of change requests following testing extending work on each phase	ANALYZED	EXTREME		
ABC-6	Costs could rise significantly during the course of the project	TREATED	EXTREME	MEDIUM	Mitigate
ABC-1	Loss to project of key staff	ANALYZED	HIGH		
ABC-2	Significant changes in user requirements	ANALYZED	HIGH		
ABC-7	Pilot users not fully committed (at time of planning)	ANALYZED	HIGH		
ABC-5	Loss of power or internet connection at key roll-out, demo or training events	ANALYZED	LOW		



Rhetoric

Nomogram

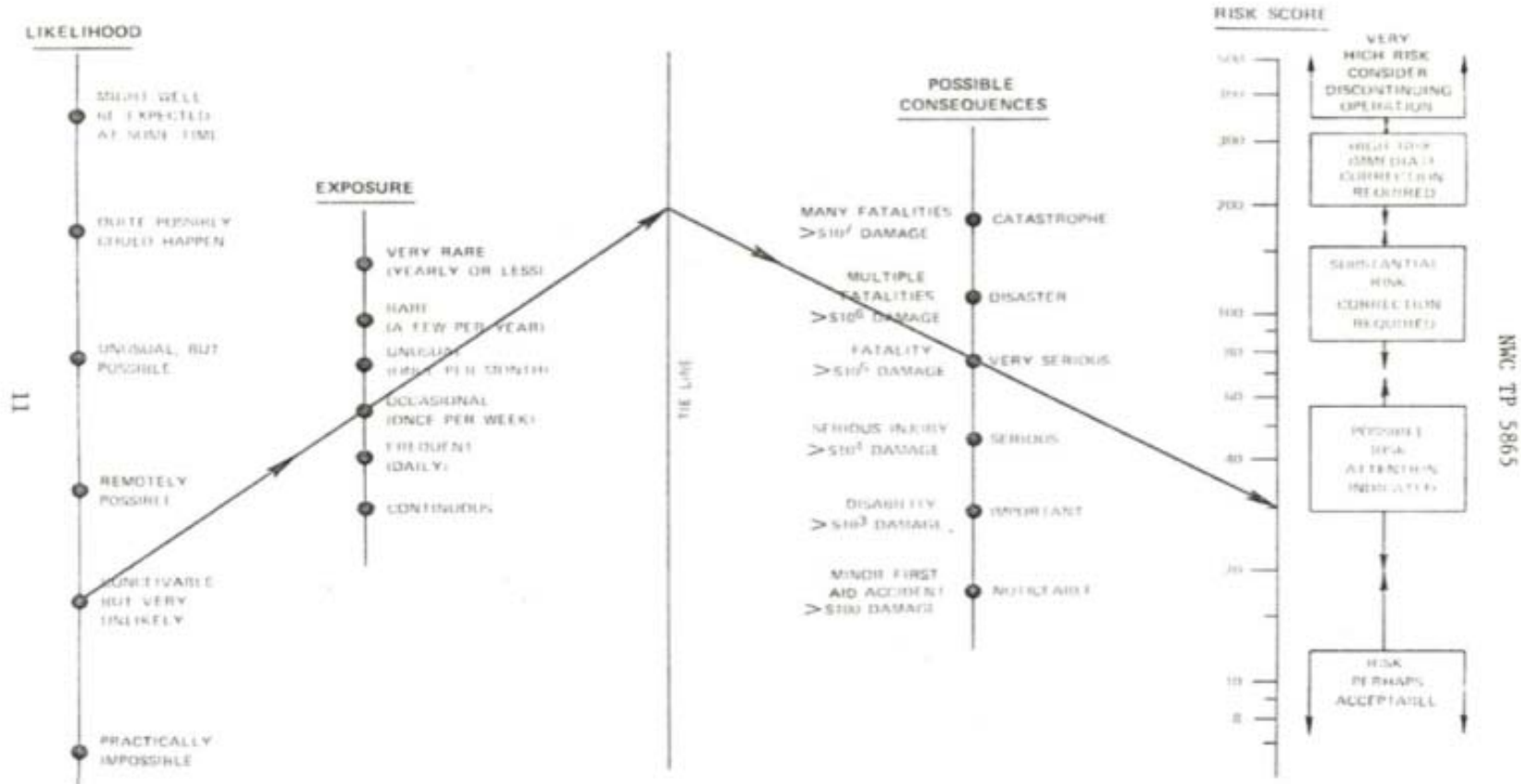
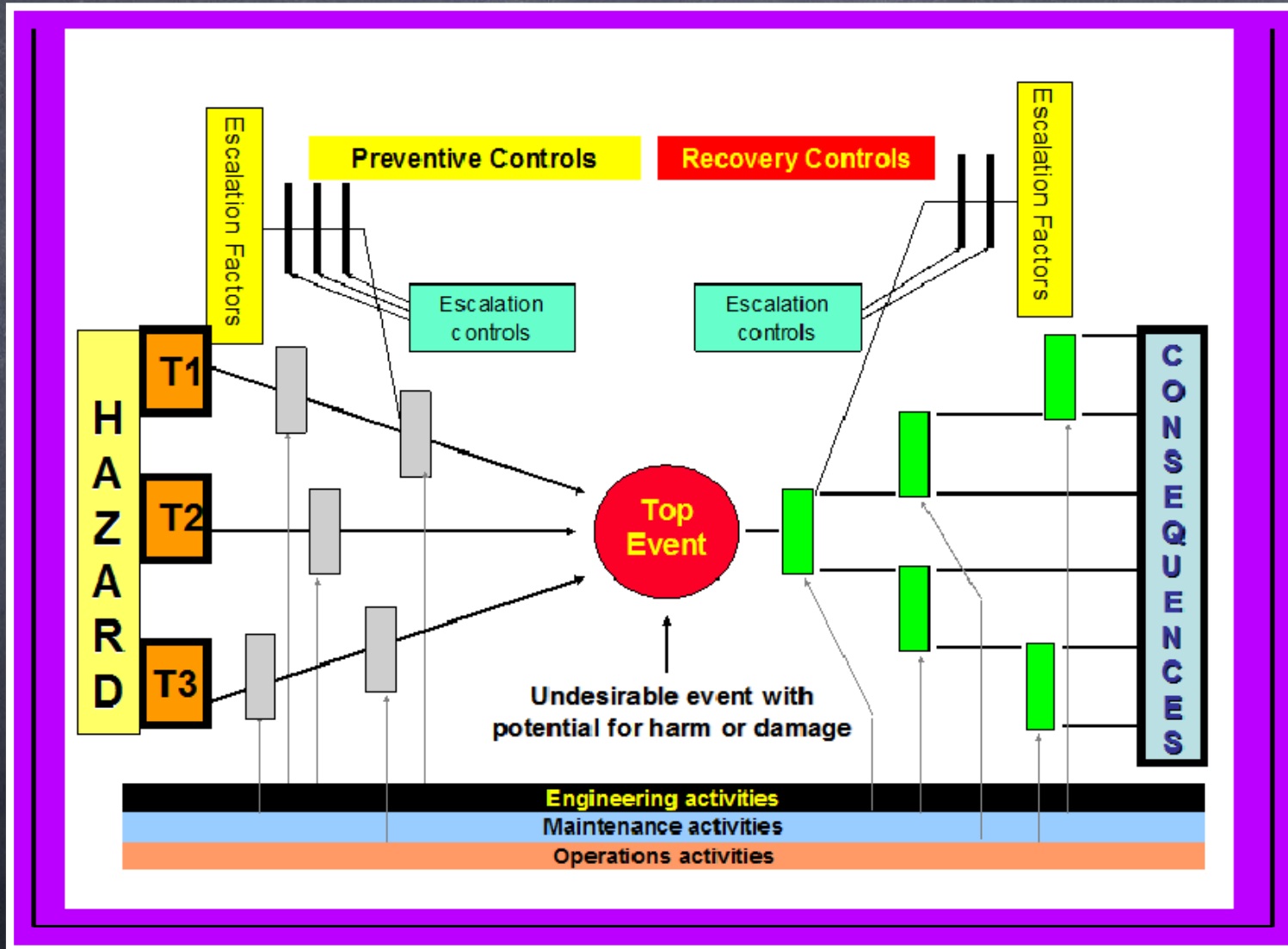


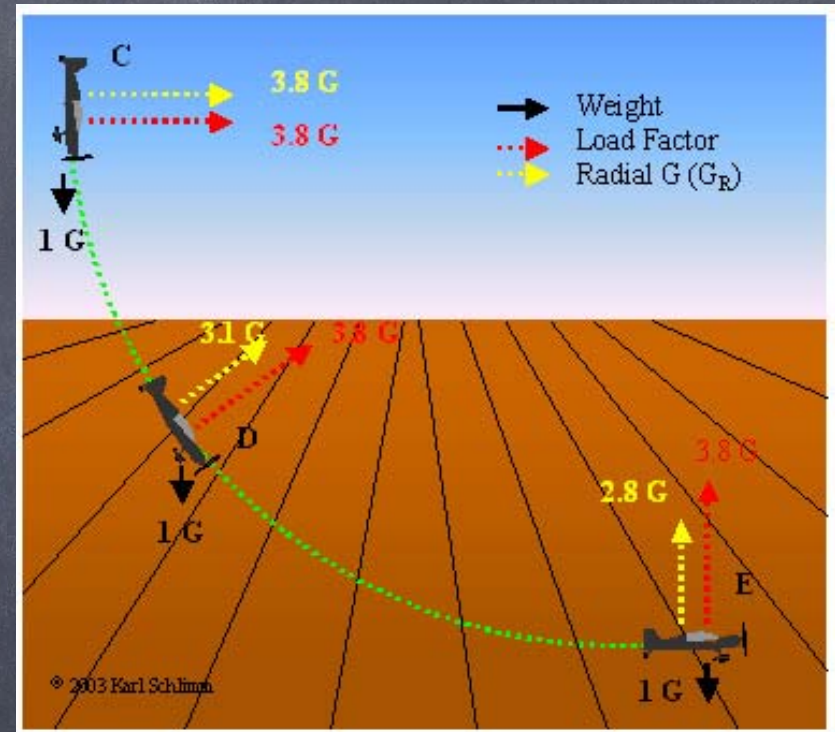
FIGURE 1. Risk Analysis.

Bow-Tie



Time Safety Margin

- Proscriptive
- Quantitative,
- Single purpose



Contemporary Tools

- Standard Approach
 - Identify
 - Assess
 - Treat
- Known hazards

Think Like A Human

- Consequence - easy
- Probability - hard
- *Big* numbers - v. hard
- "Black Swan" (Taleb)

Complexity

- Modern aircraft / FT
 - “Complicated” (Javorsek)
- Non-Gaussian
 - many Modes
- Un-knowable (?)

The Problem

- Modern FT: complex
- Risk tools: linear
 - Step 1: Identify the hazard

Way Ahead

- No magic bullet / tool
 - Still looking
- Know the limitations
- Leadership
 - in implementation

Managing Complexity

- Avoid
- Transfer
- Mitigate



Standard,
plus:

Be
active

Constrain impact

Be wary of probability

Reduce complexity

“So What?”

- Understanding
 - More than the minimum
- Better risk management
- Leverage extant policy

Questions?