

IIC International Training Centre for Conservation

Inaugural Programme

20-25 Sep 2015 The Palace Museum, Beijing

**Scientific Approaches to
Preventive Conservation**



MANAGING RISKS to CULTURAL PROPERTY



International Institute
for Conservation of
Historic and Artistic Works

Robert Waller
Protect Heritage Corp.
2015 September



故宫博物院
THE PALACE MUSEUM



PROTECT HERITAGE
Bridging Past and Future

This presentation

Is:

- Methods, levels, and strategies for control of risks
- Creativity and flexibility
- Right information to right managers

Is not:

- Specific strategies
- Single grand plan

Methods for control



Avoid



Block



Detect



Respond / Recover

Levels for control



Location



Site



Building



Room



Storage unit

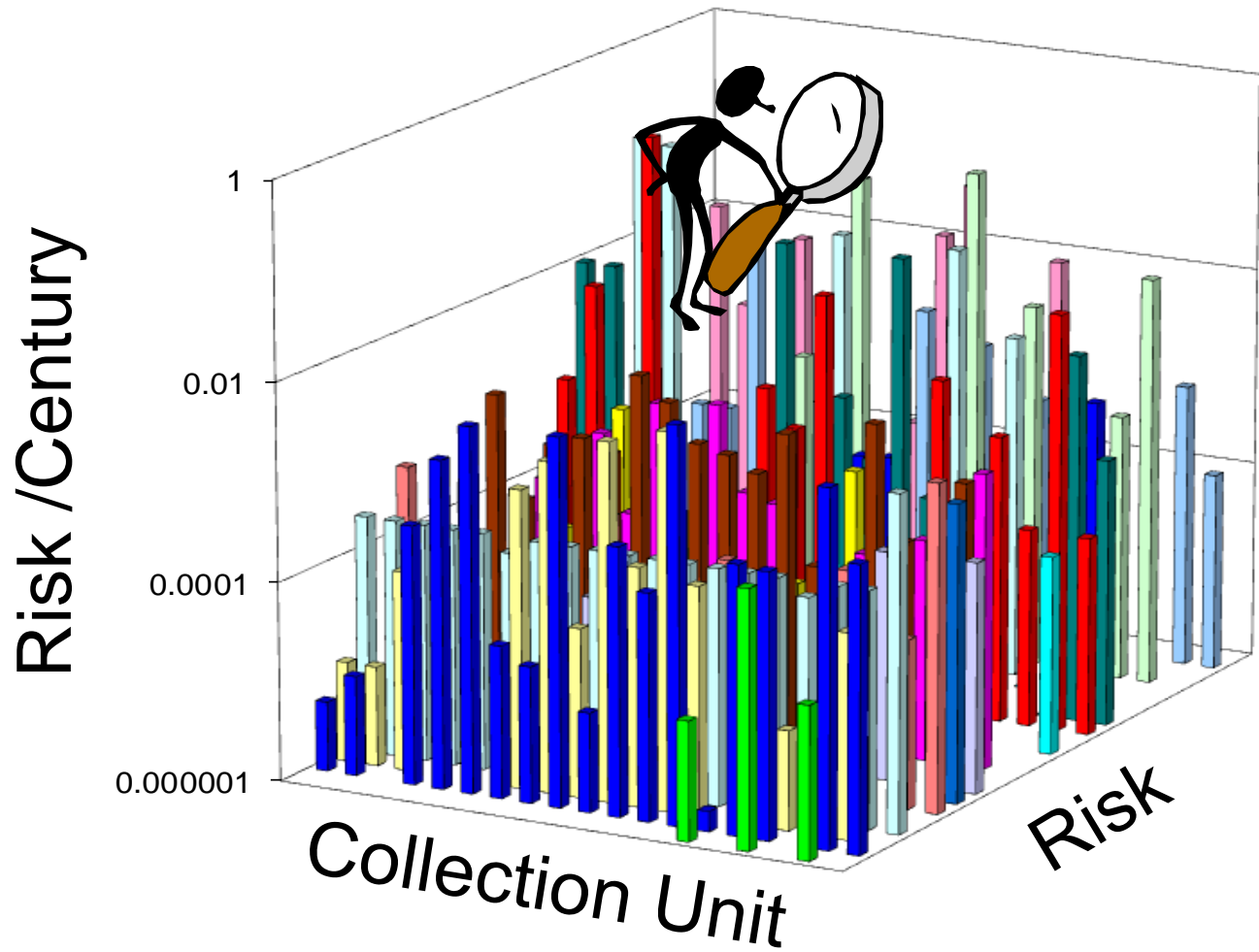


Object

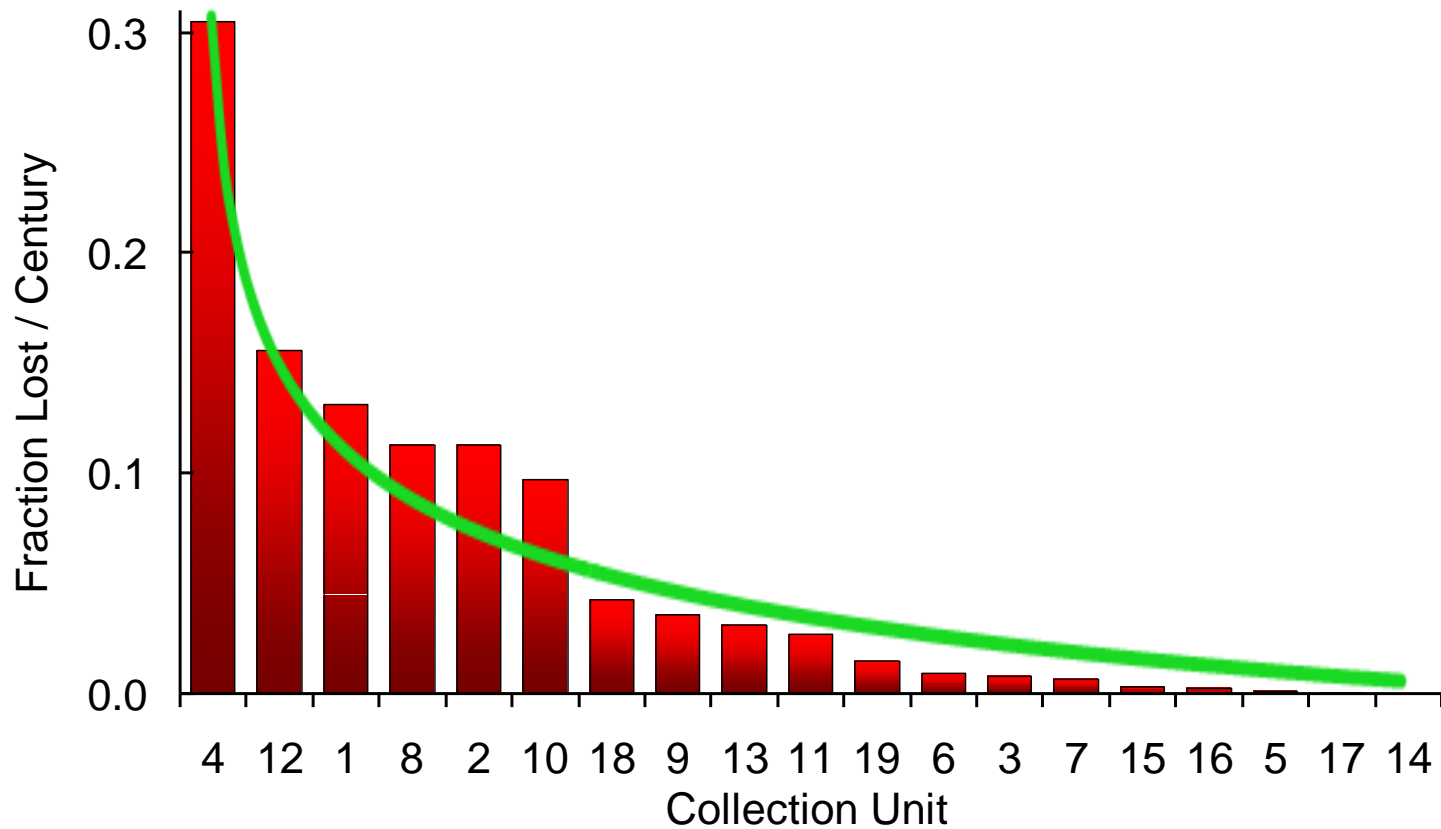


Policy / procedure

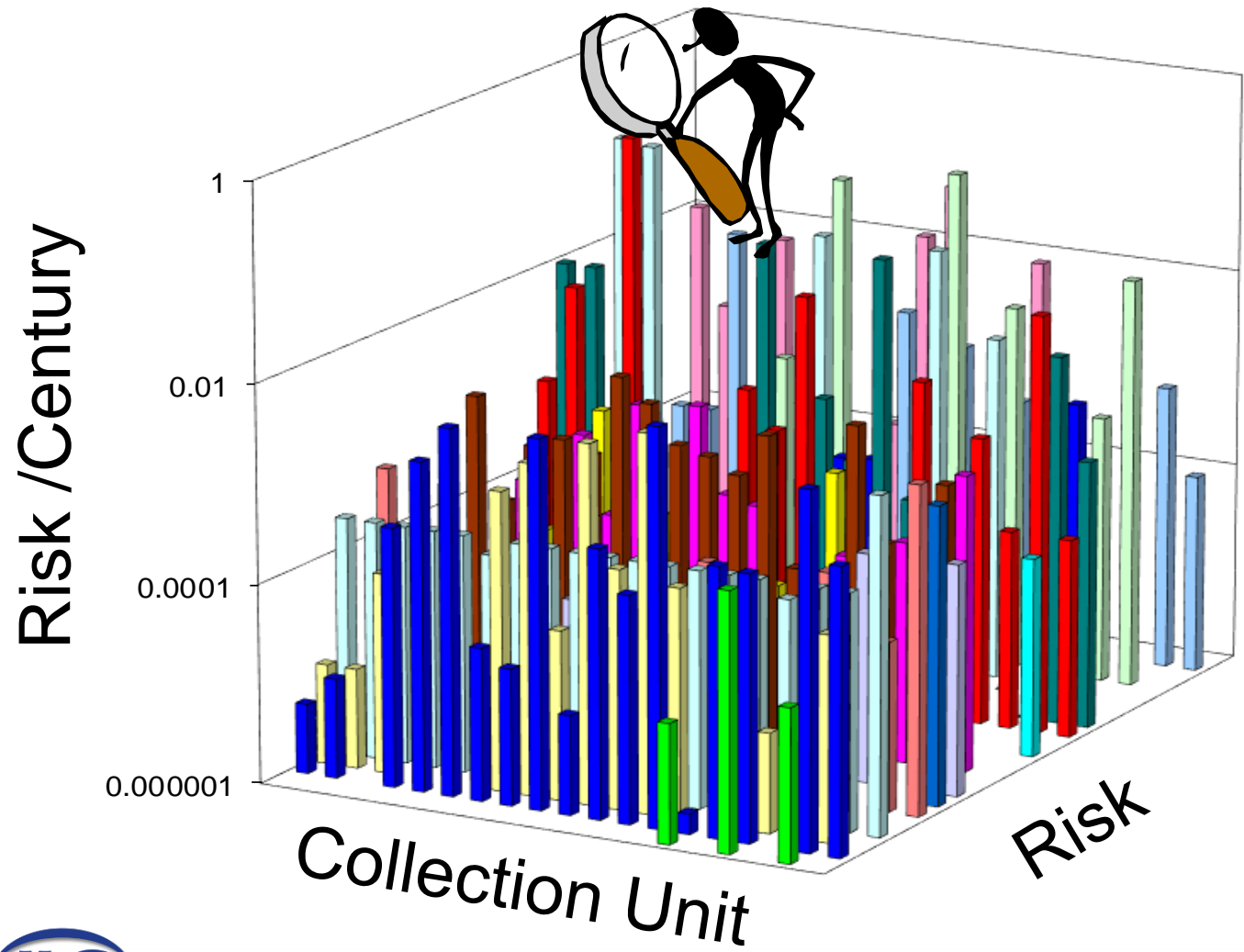
The Forest



Risk profile by collection units

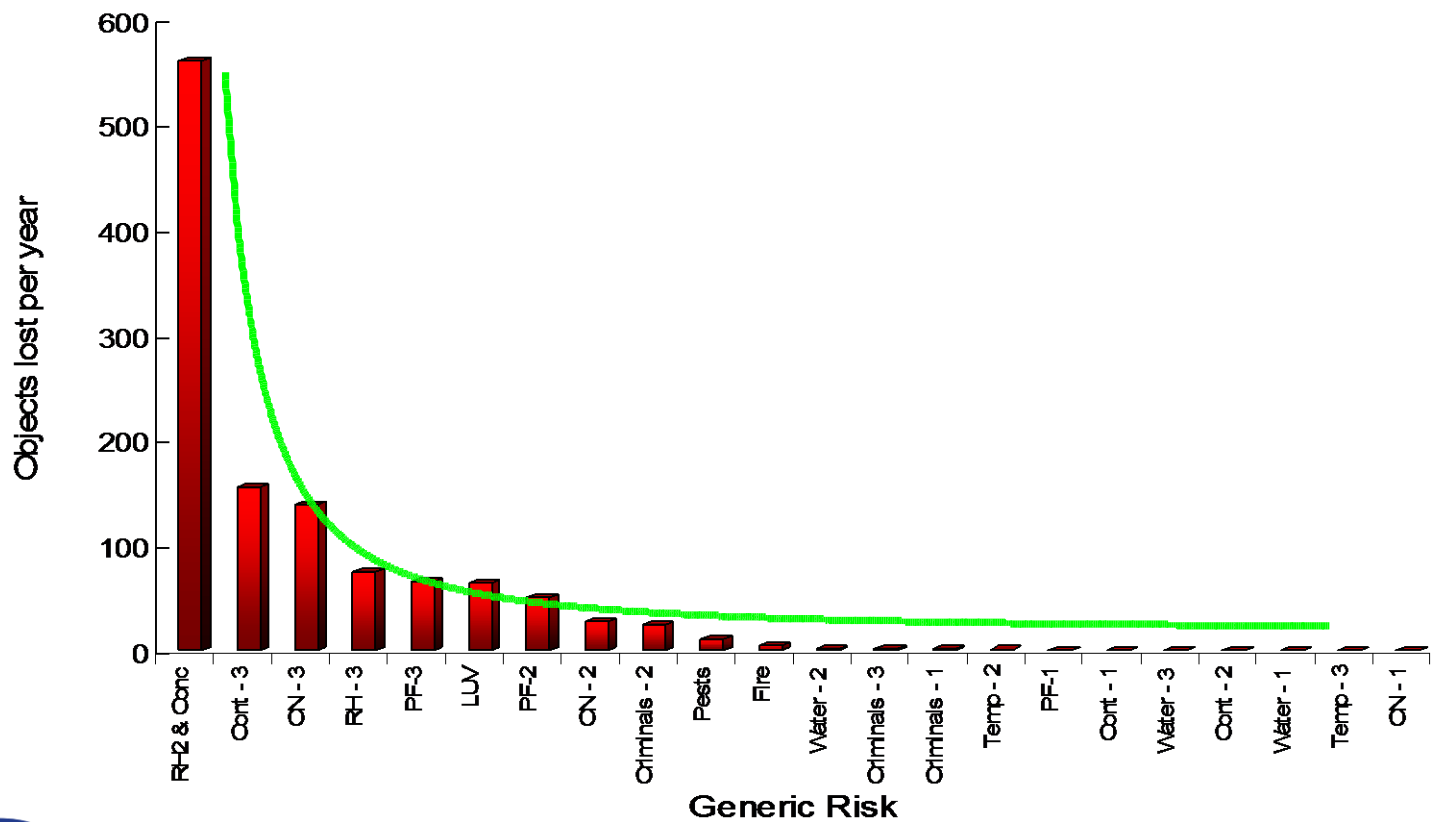


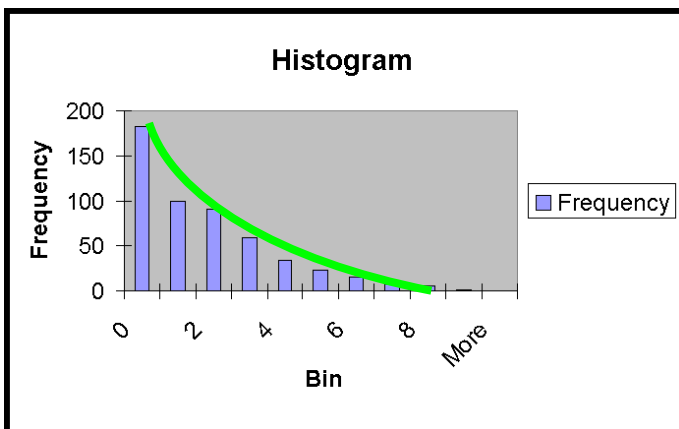
The Forest



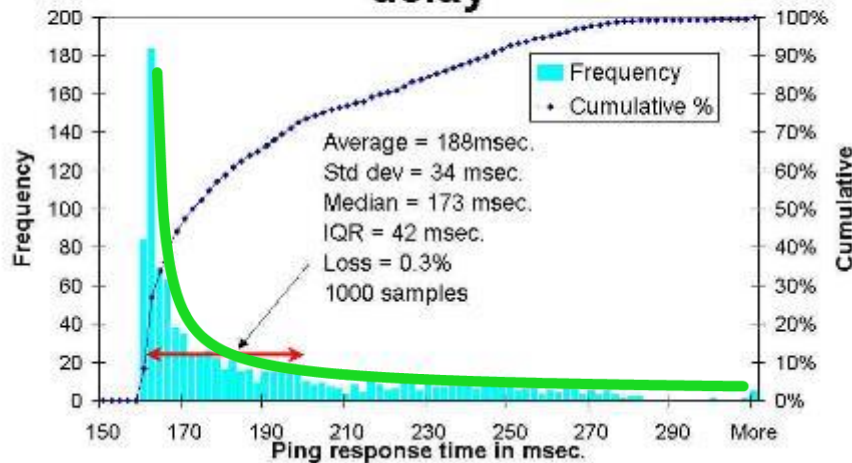
Risk profile by generic risk

1998 Total Risk to CMN Collection

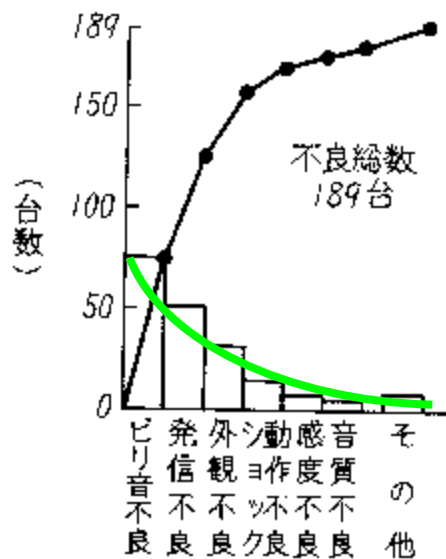




SLAC <=> CERN round trip delay

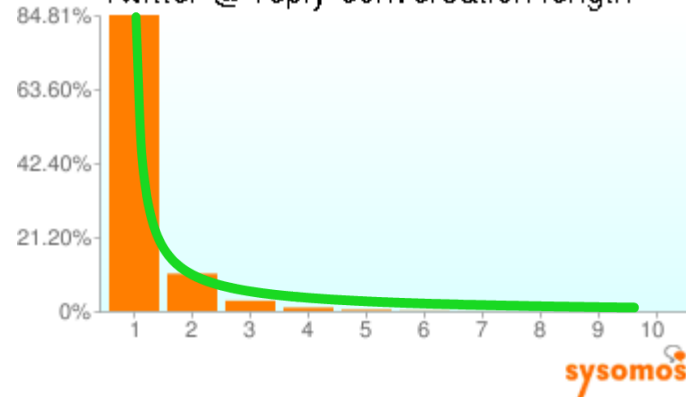


パレート図の一例

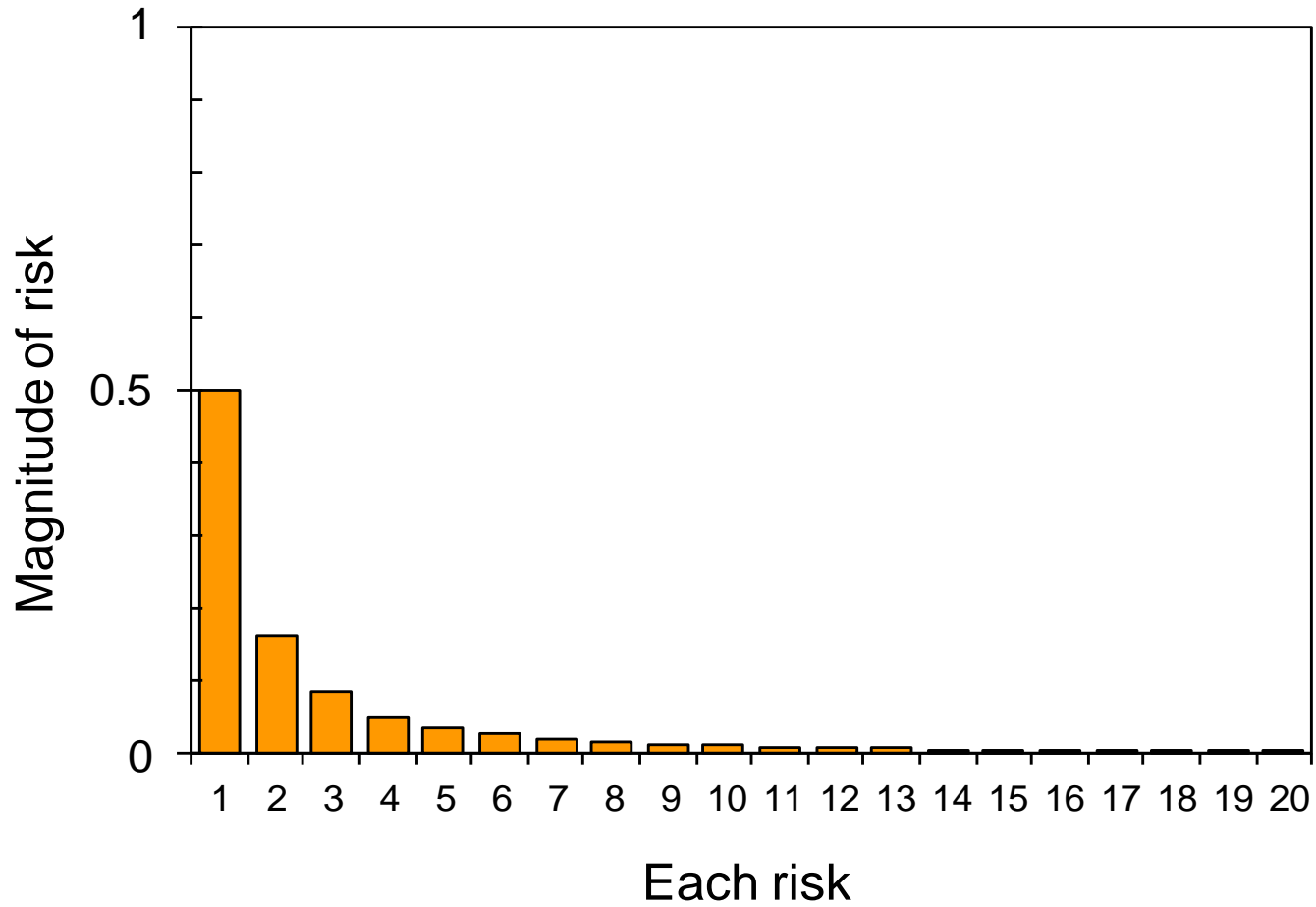


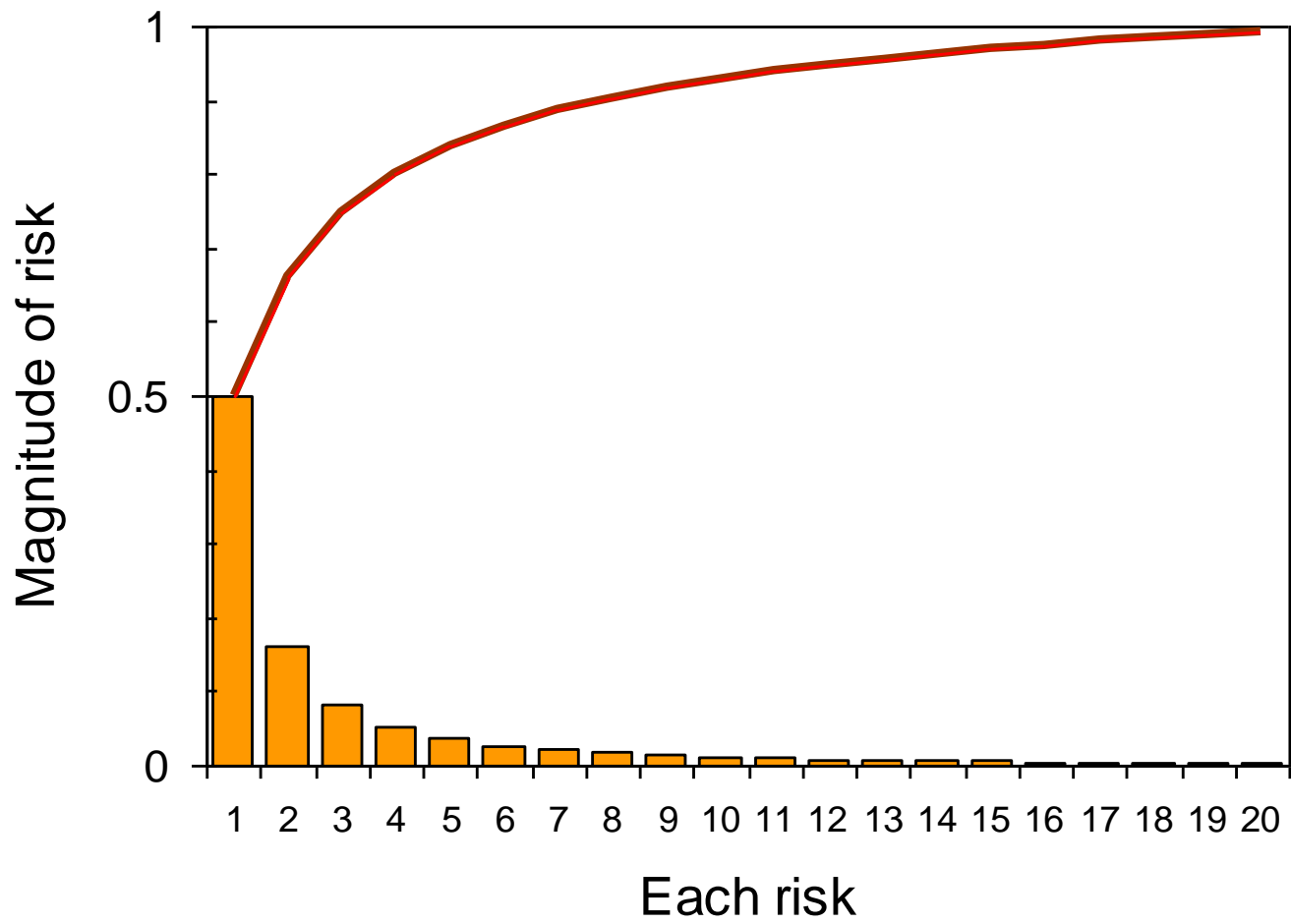
Vilfredo Pareto
1848 - 1923

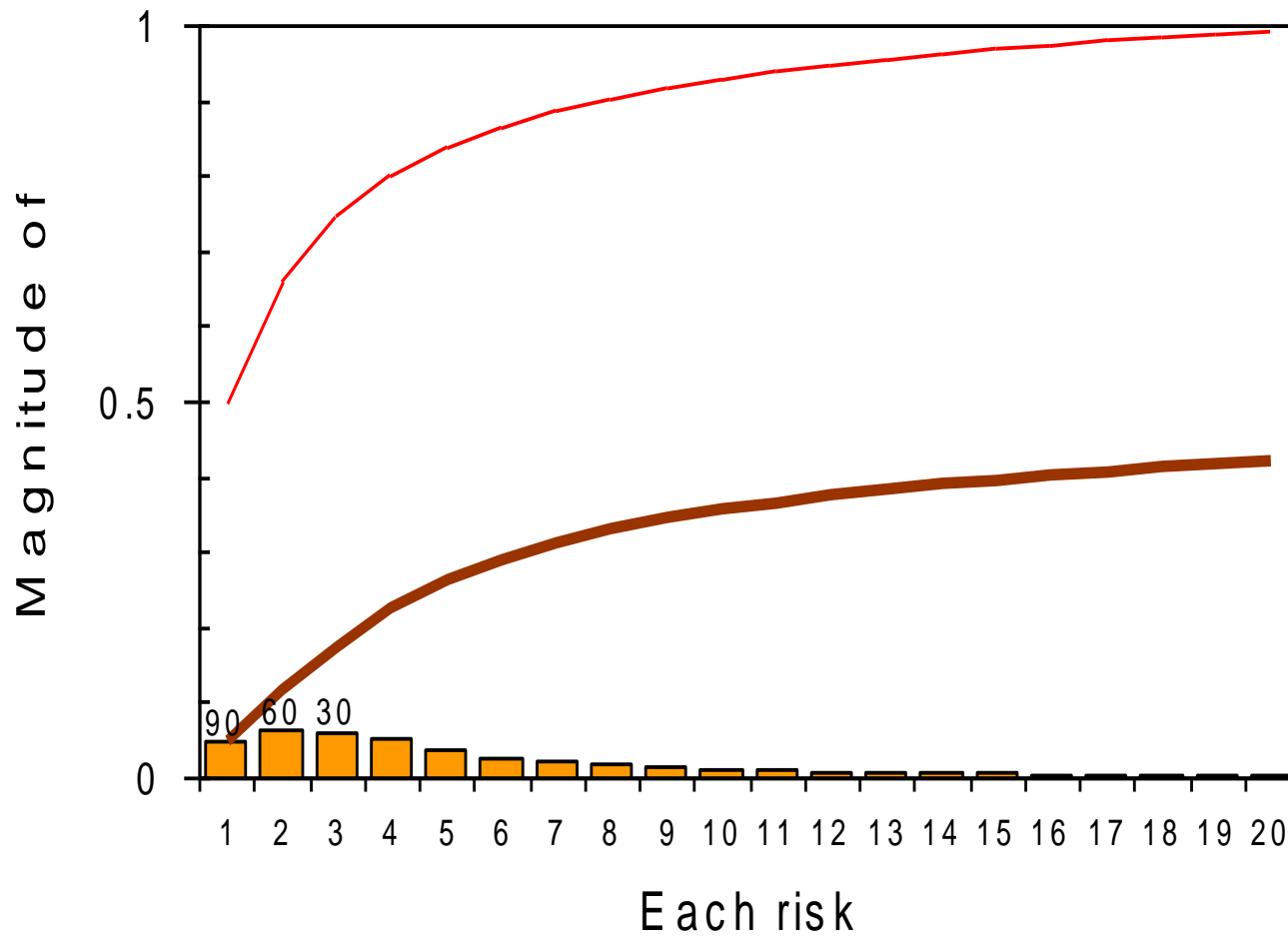
Twitter @ reply conversation length

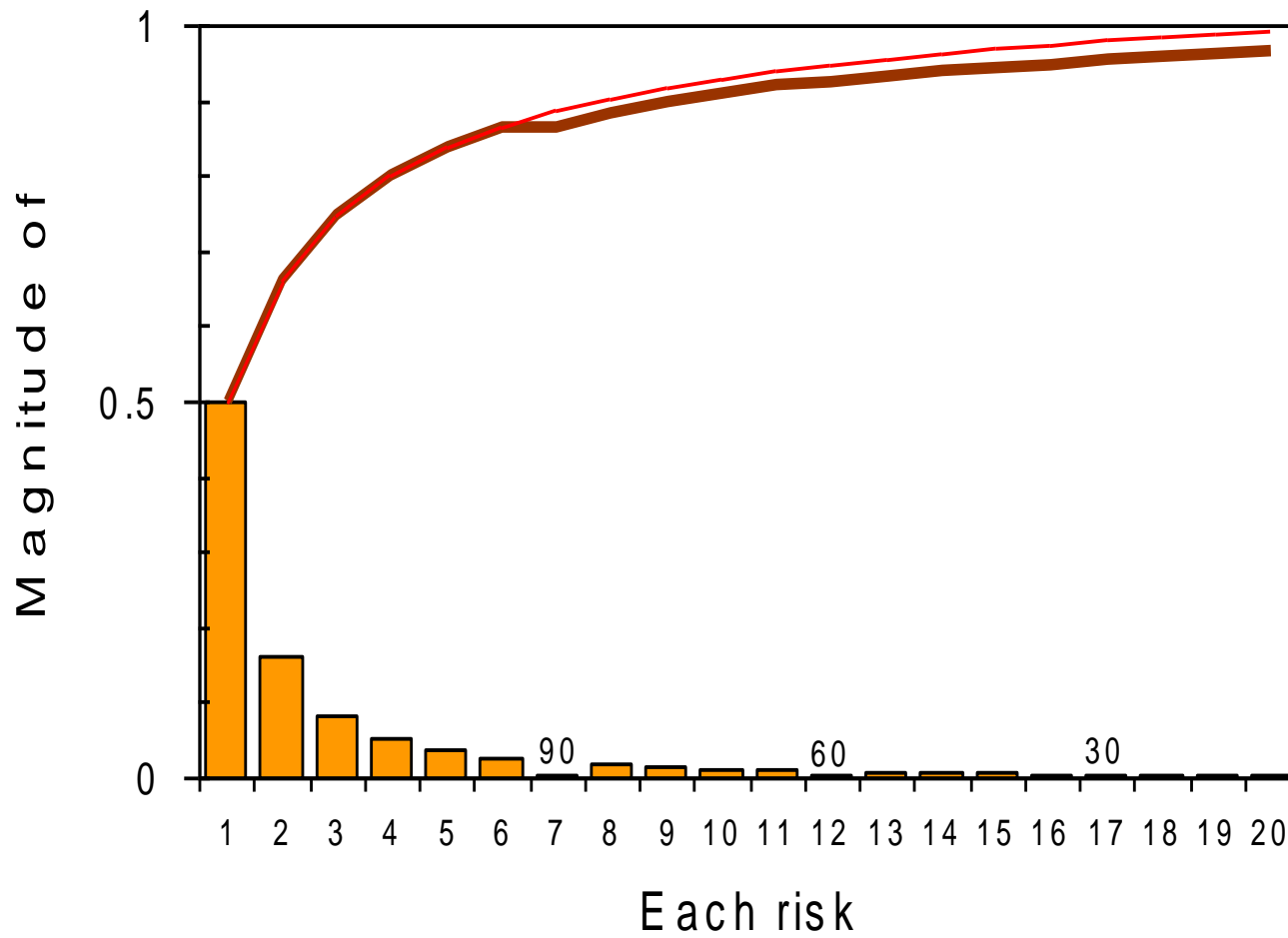


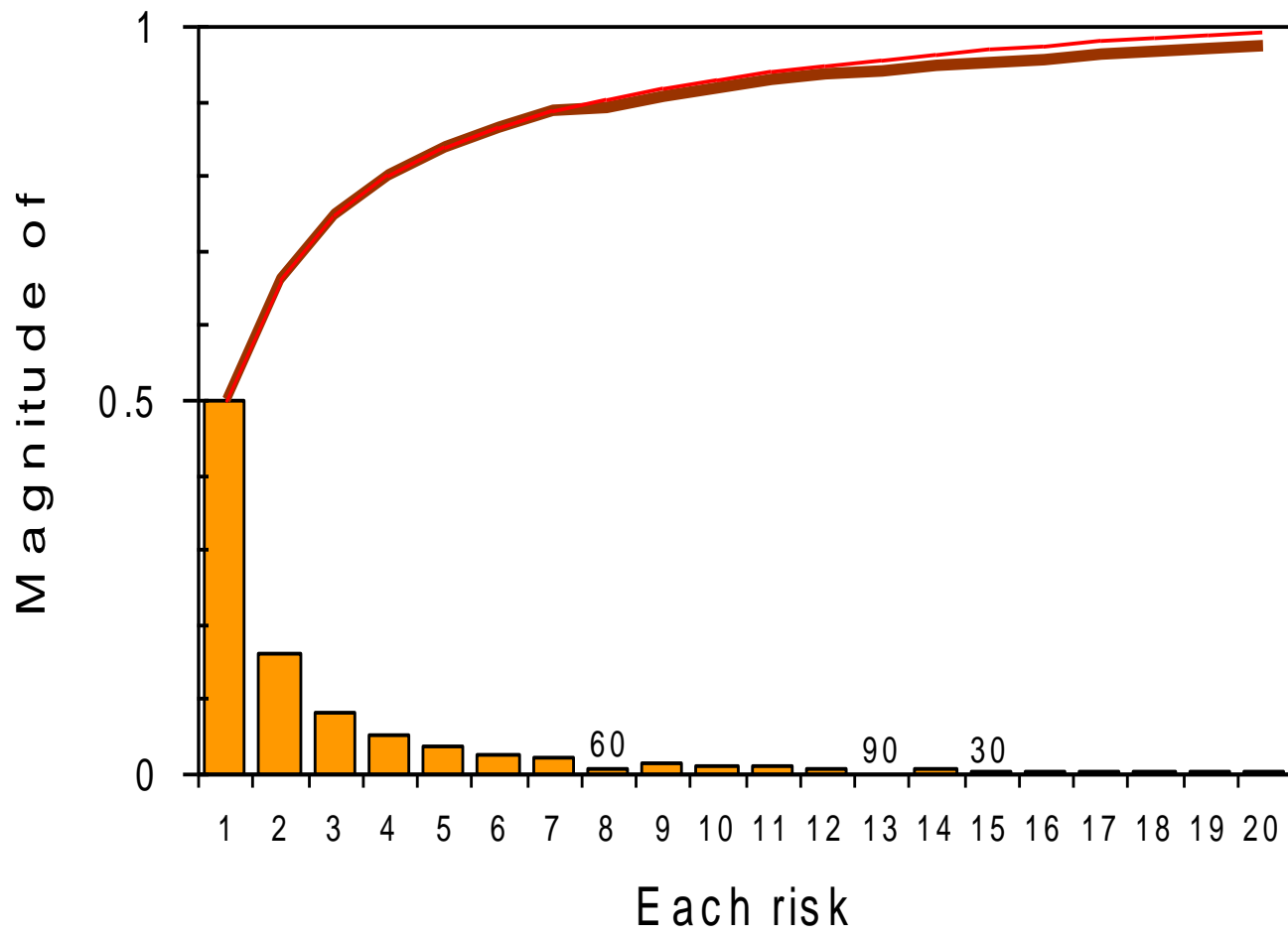
Pareto distribution

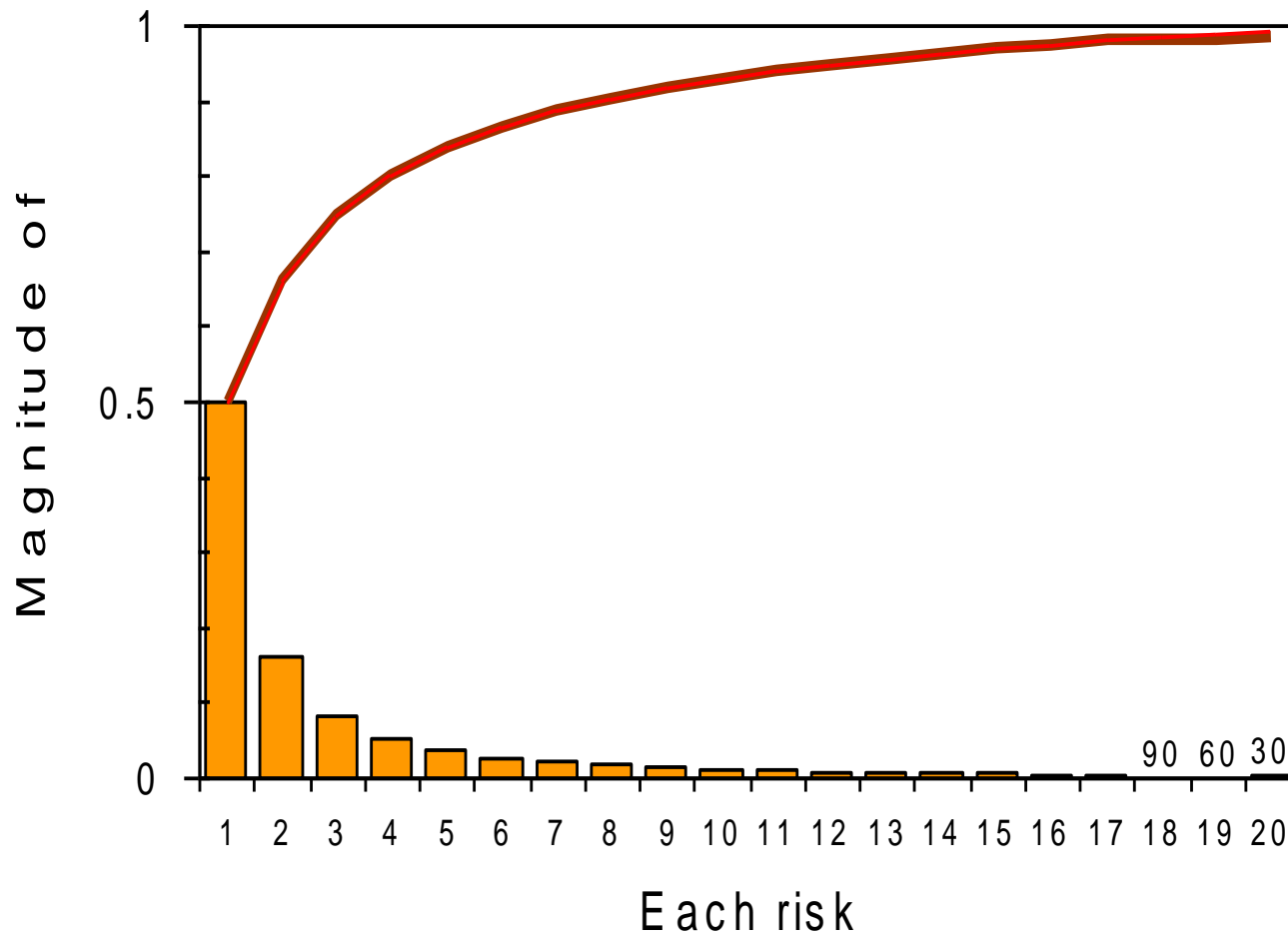


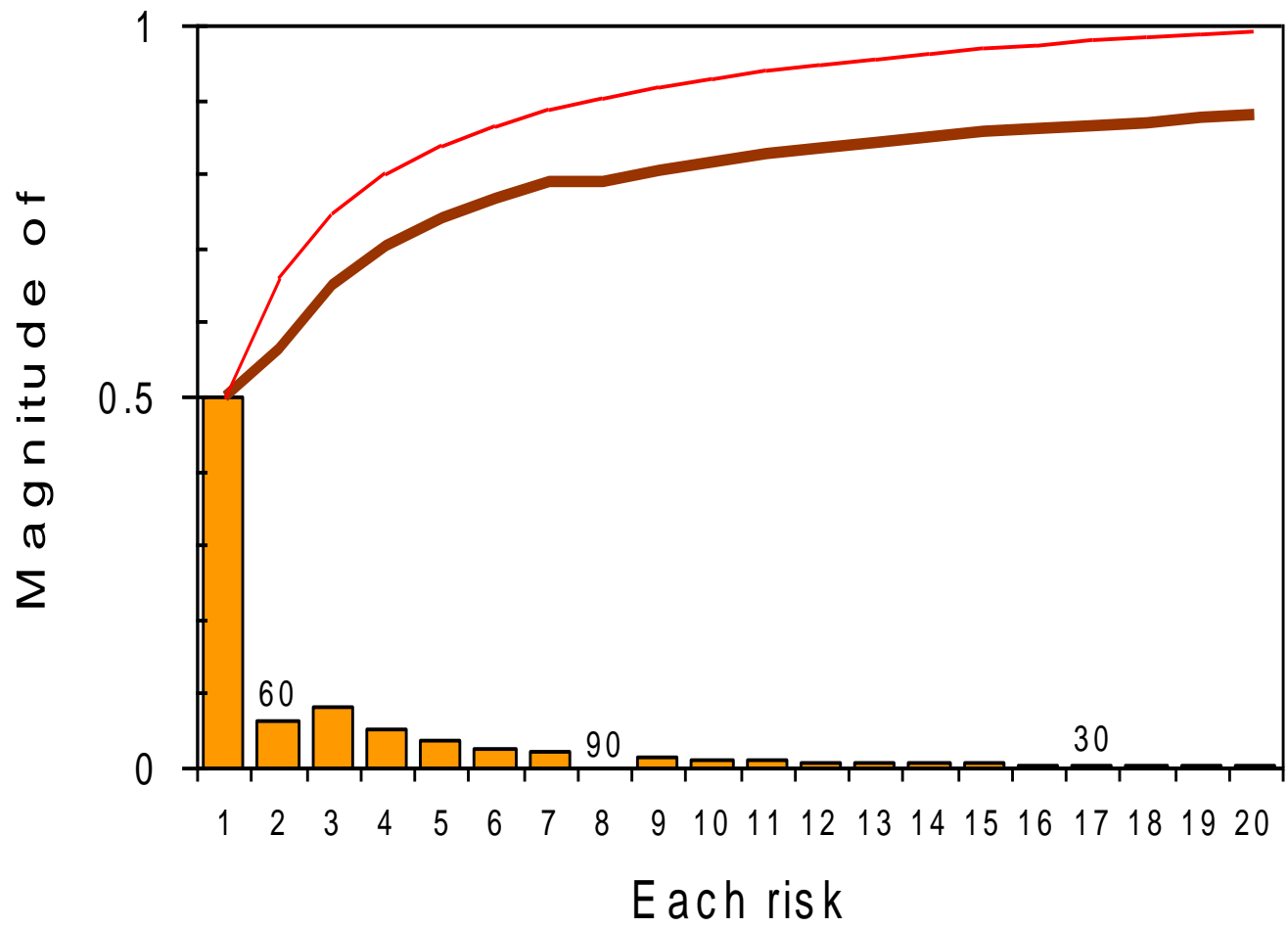


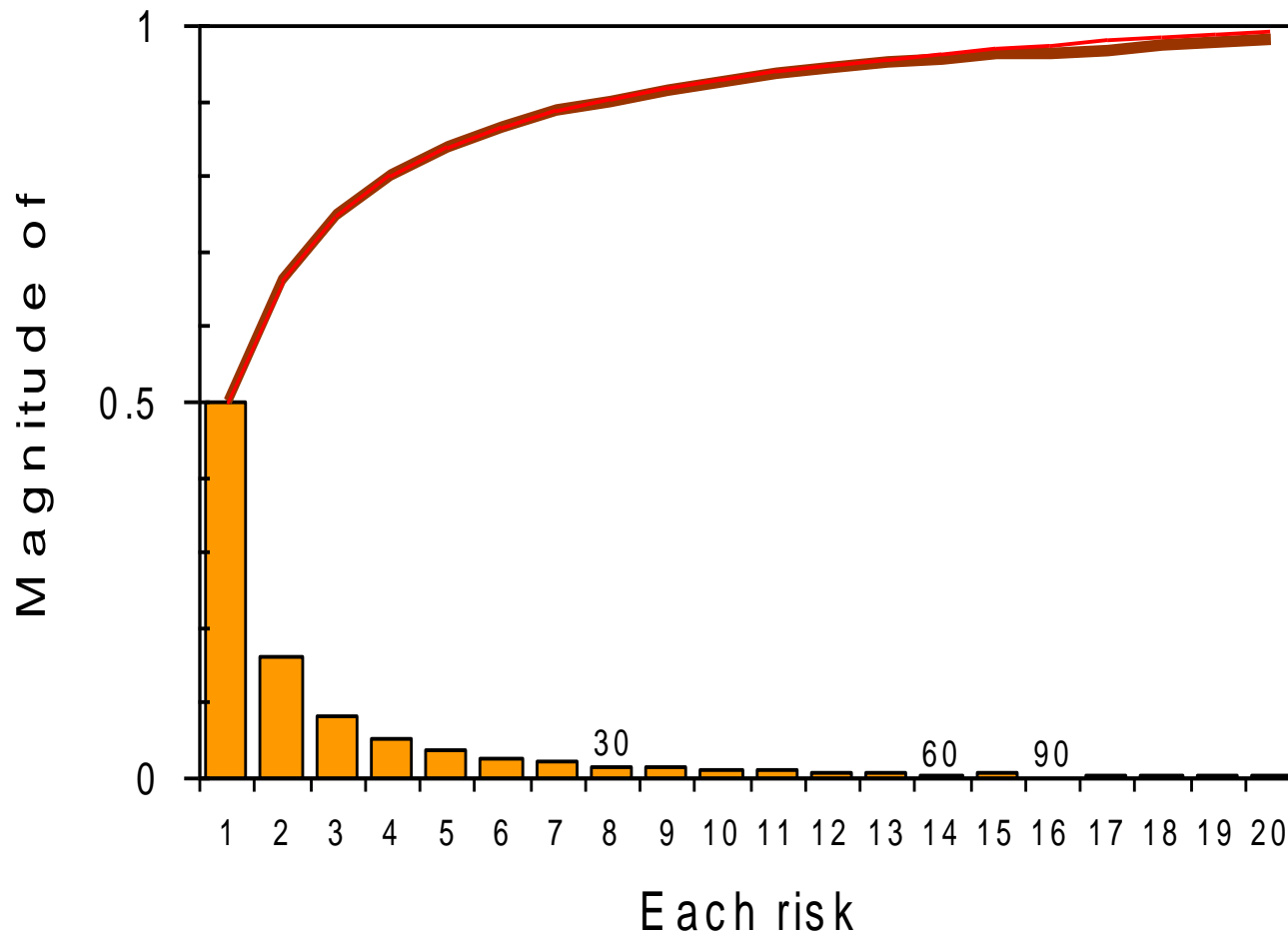


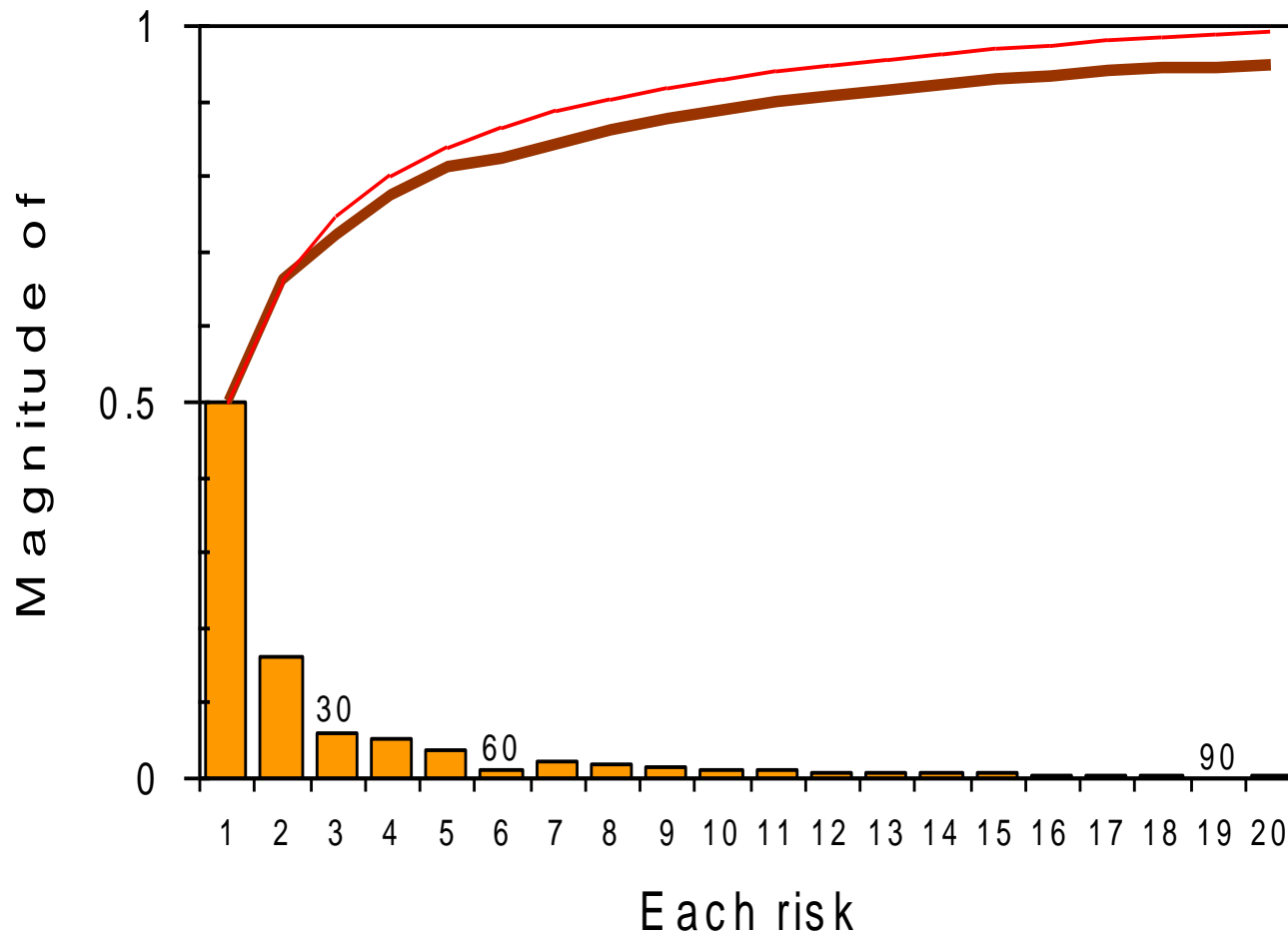


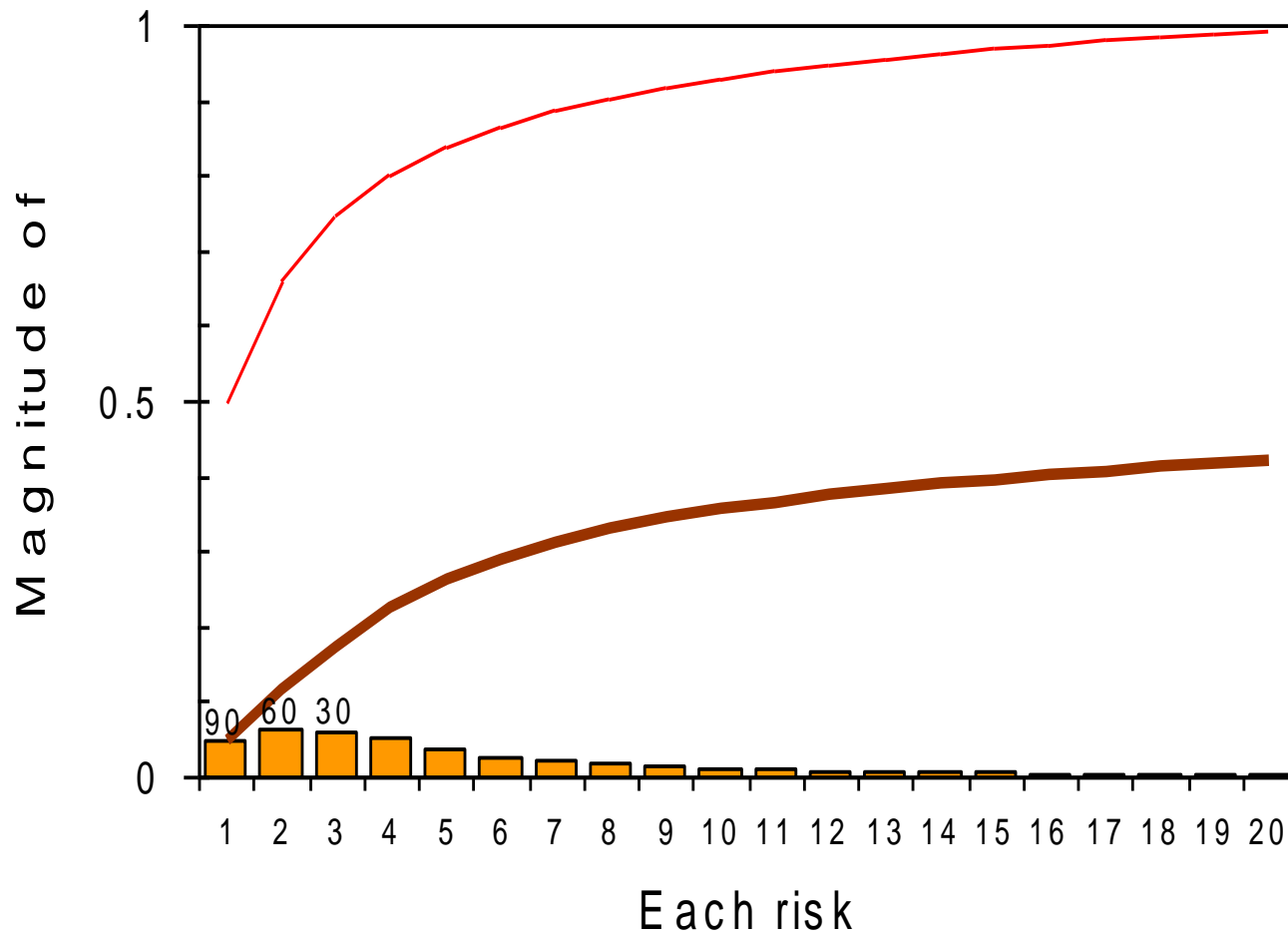












Cultural Property Risk Analysis Model

- ☑ Define context and scope
- ☑ Identify risks
- ☑ Determine expected losses
- ☞ Evaluate risks

Management

- more or less skilled handling of something [risks]
- “*more or less skilled*”
- Skill → joint evaluation of:
 - assessed risks,
 - and ability to mitigate

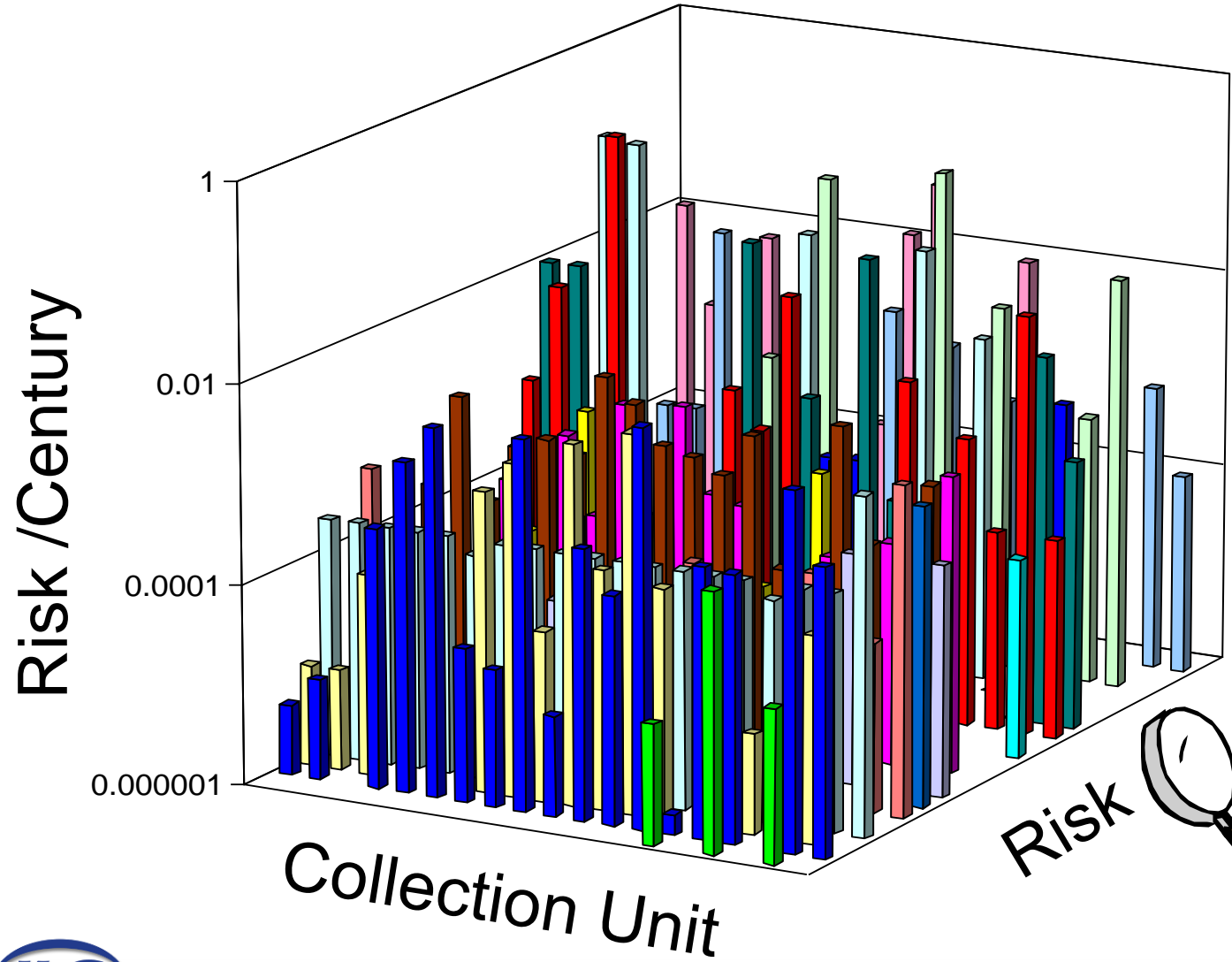
Risks must be evaluated from a management capabilities perspective

- Consider the perspective of:
 - Preservation management (conservation)
 - Collection management
 - Finance and governance
 - Facilities management

Risks must be evaluated from a management capabilities perspective

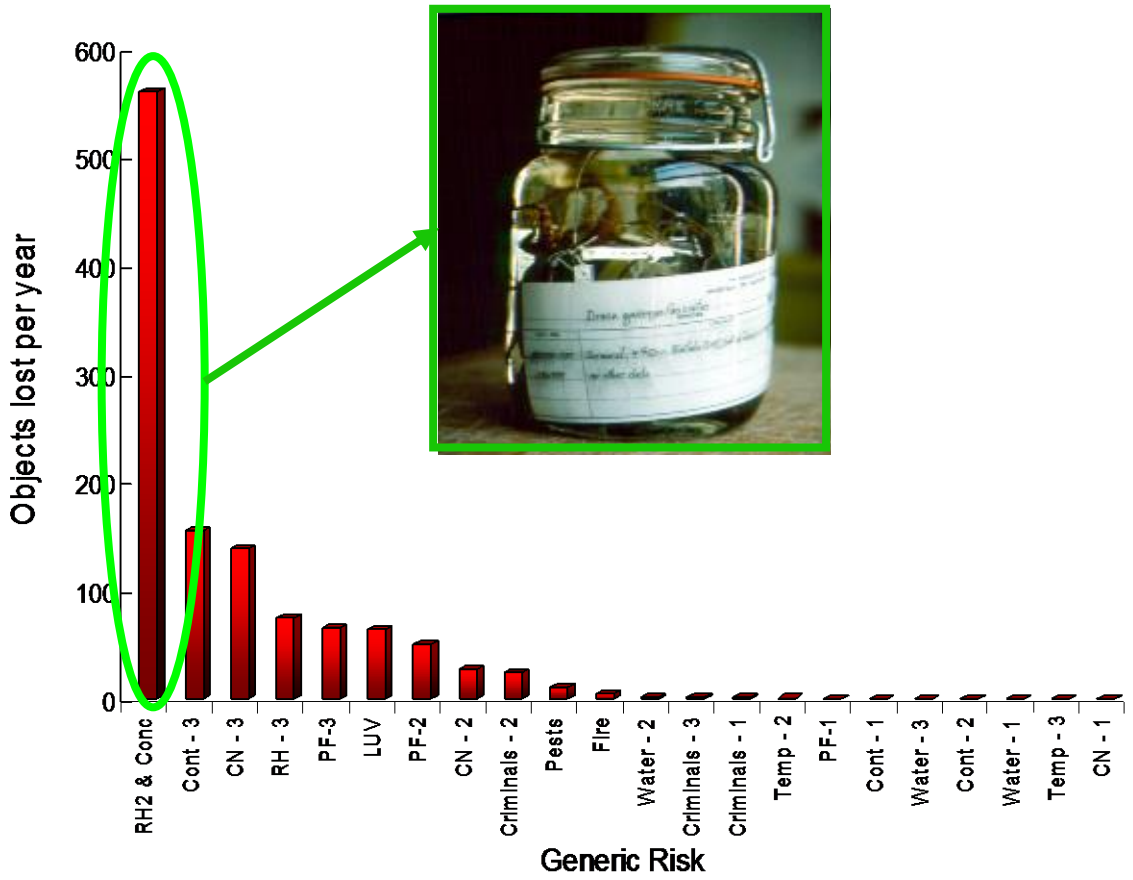
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Cultural Property Risk Analysis Model



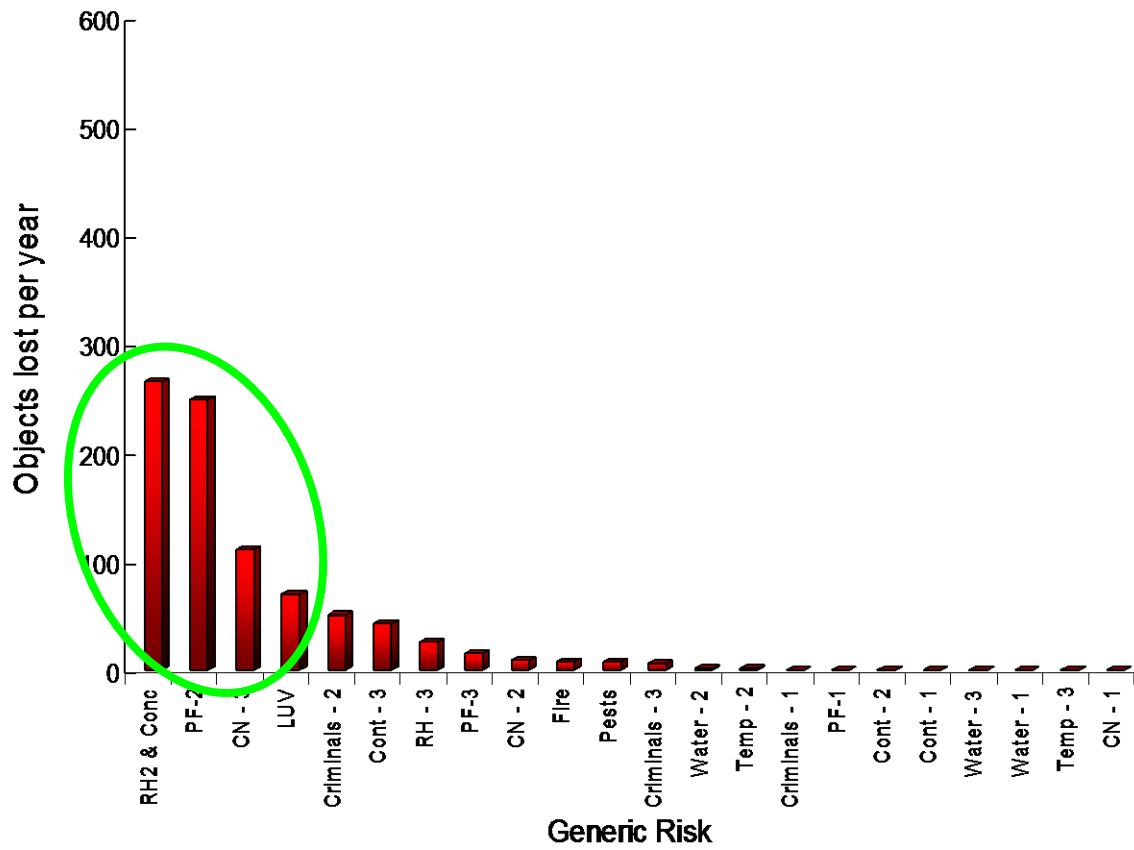
1998 Risk profile by generic risk

1998 Total Risk to CMN Collection



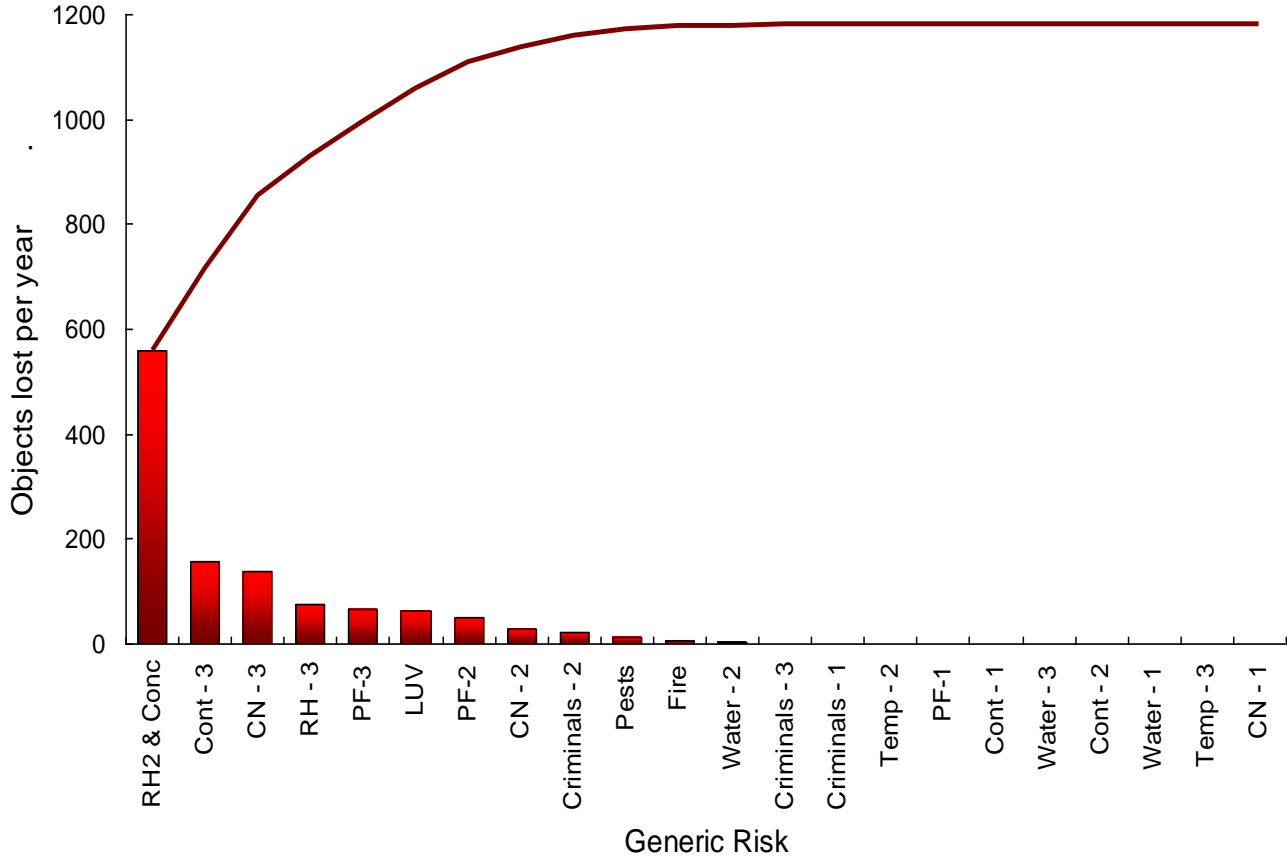
Cultural Property Risk Analysis Model

2003 Total Risk to CMN Collection



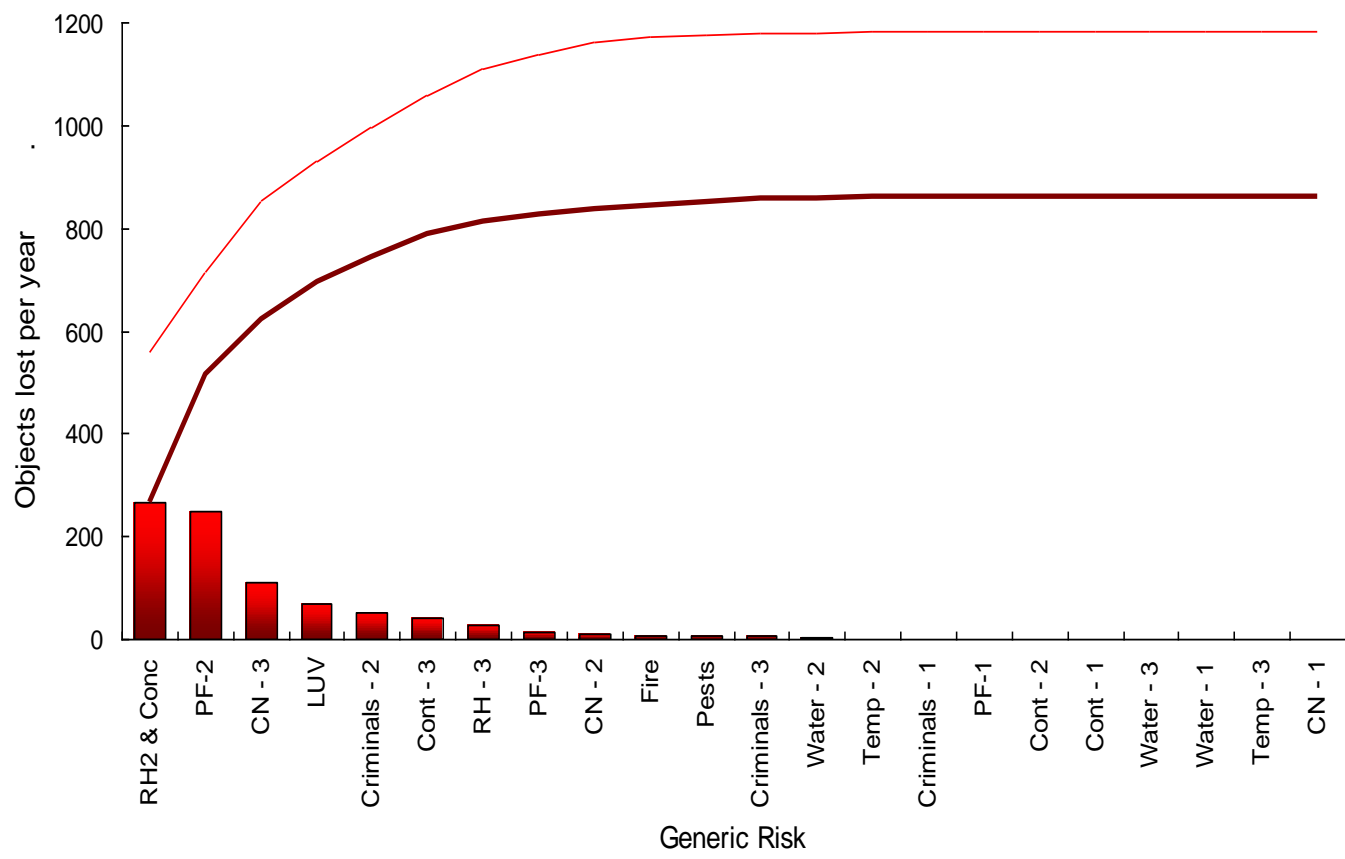
Cultural Property Risk Analysis Model

1998 Total Risk to CMN Collection



Cultural Property Risk Analysis Model

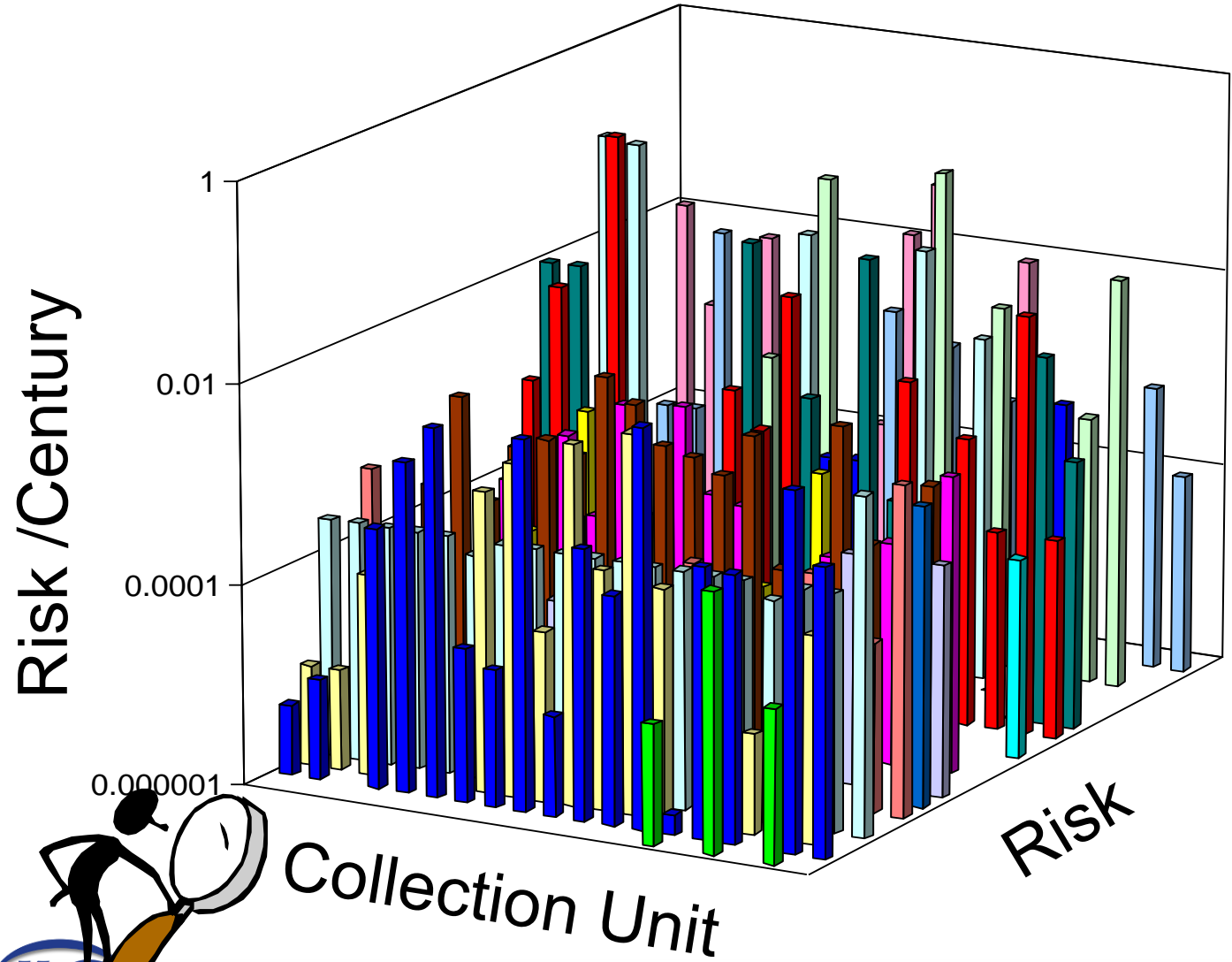
2003 Total Risk to CMN Collection

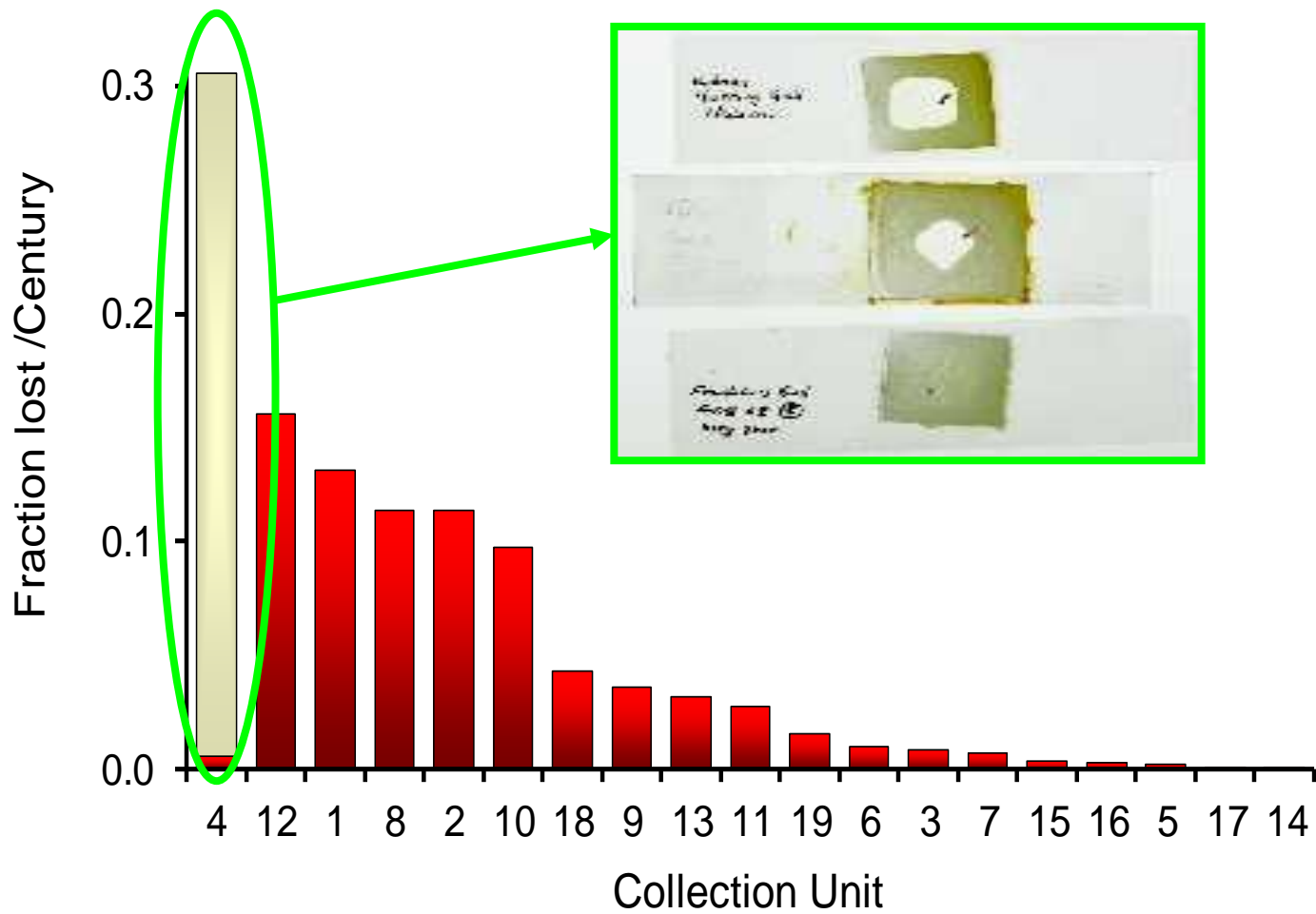


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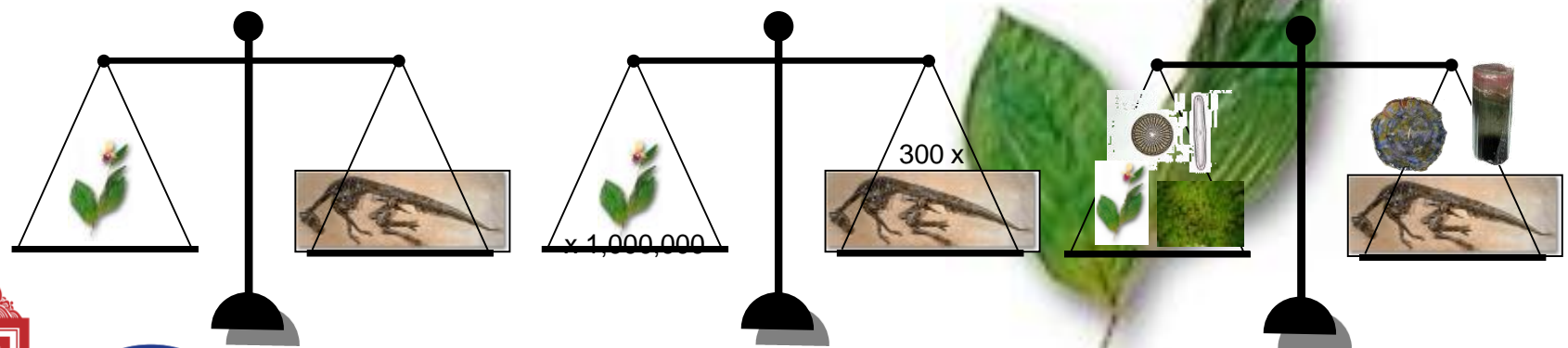
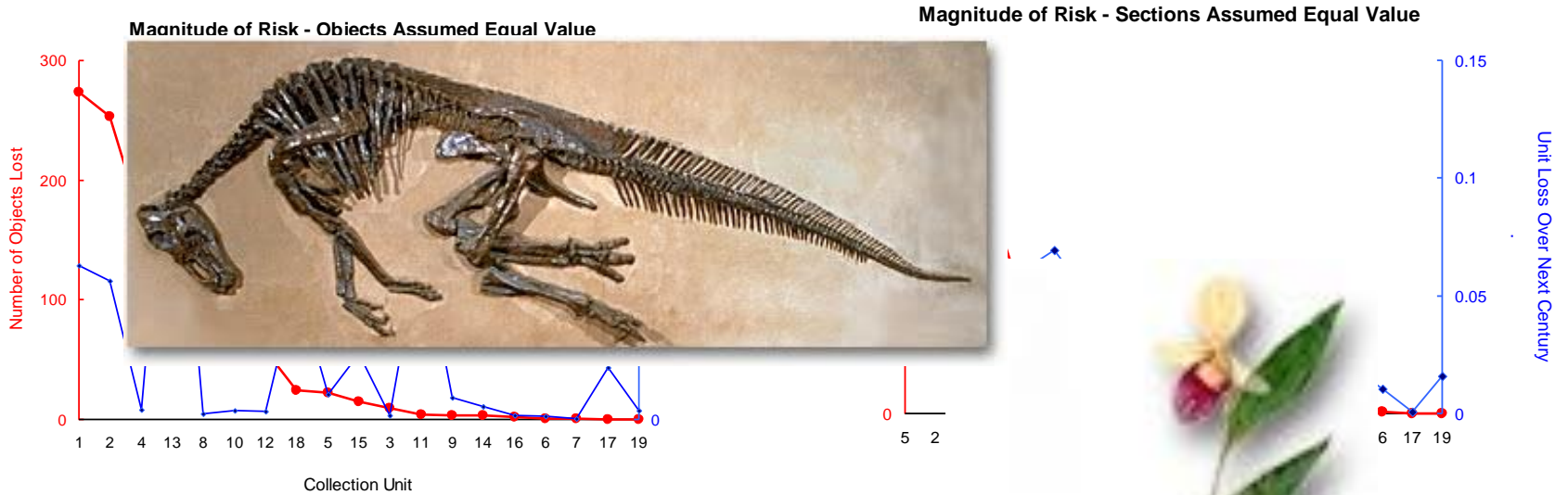
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Cultural Property Risk Analysis Model





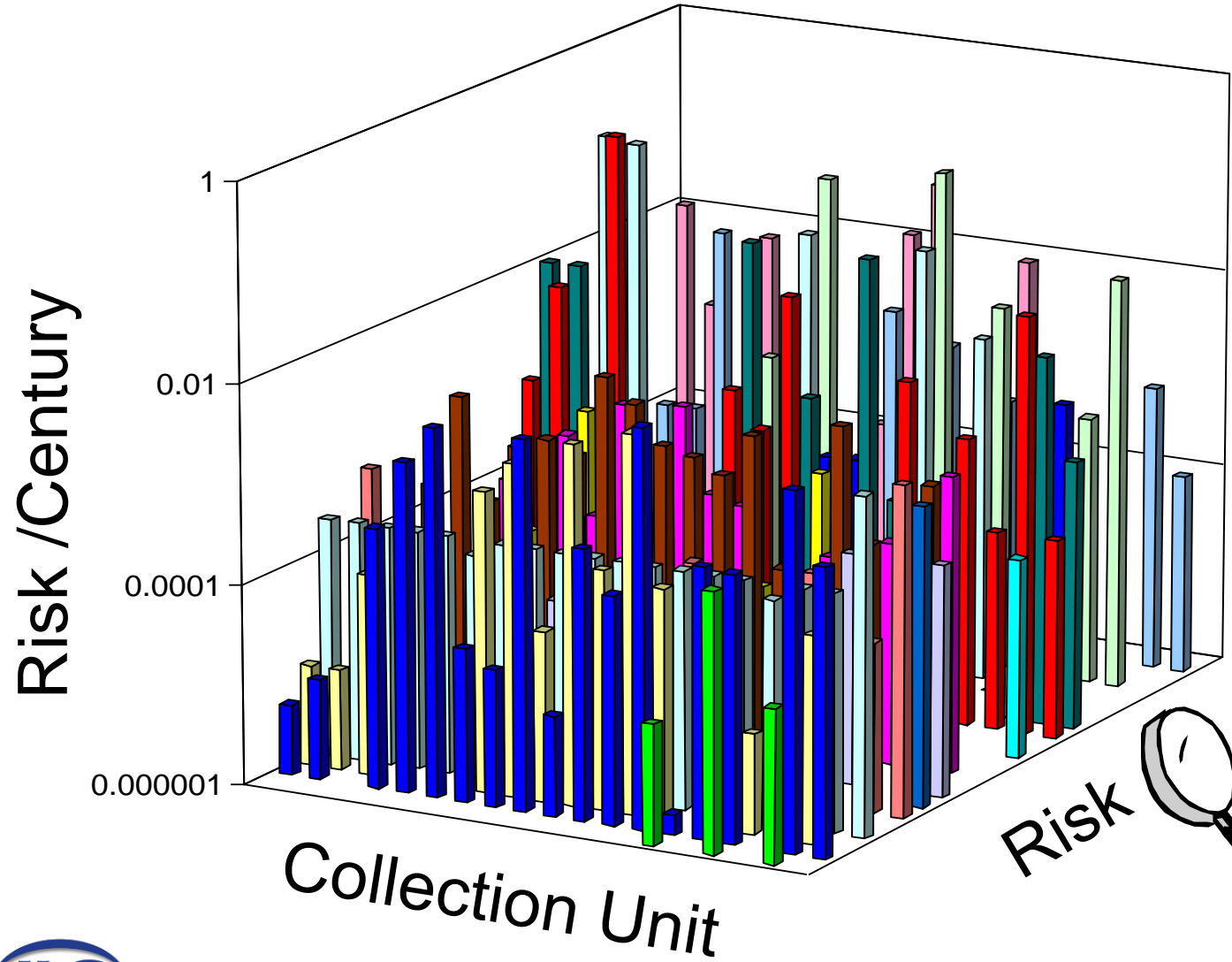
Alternative value distributions



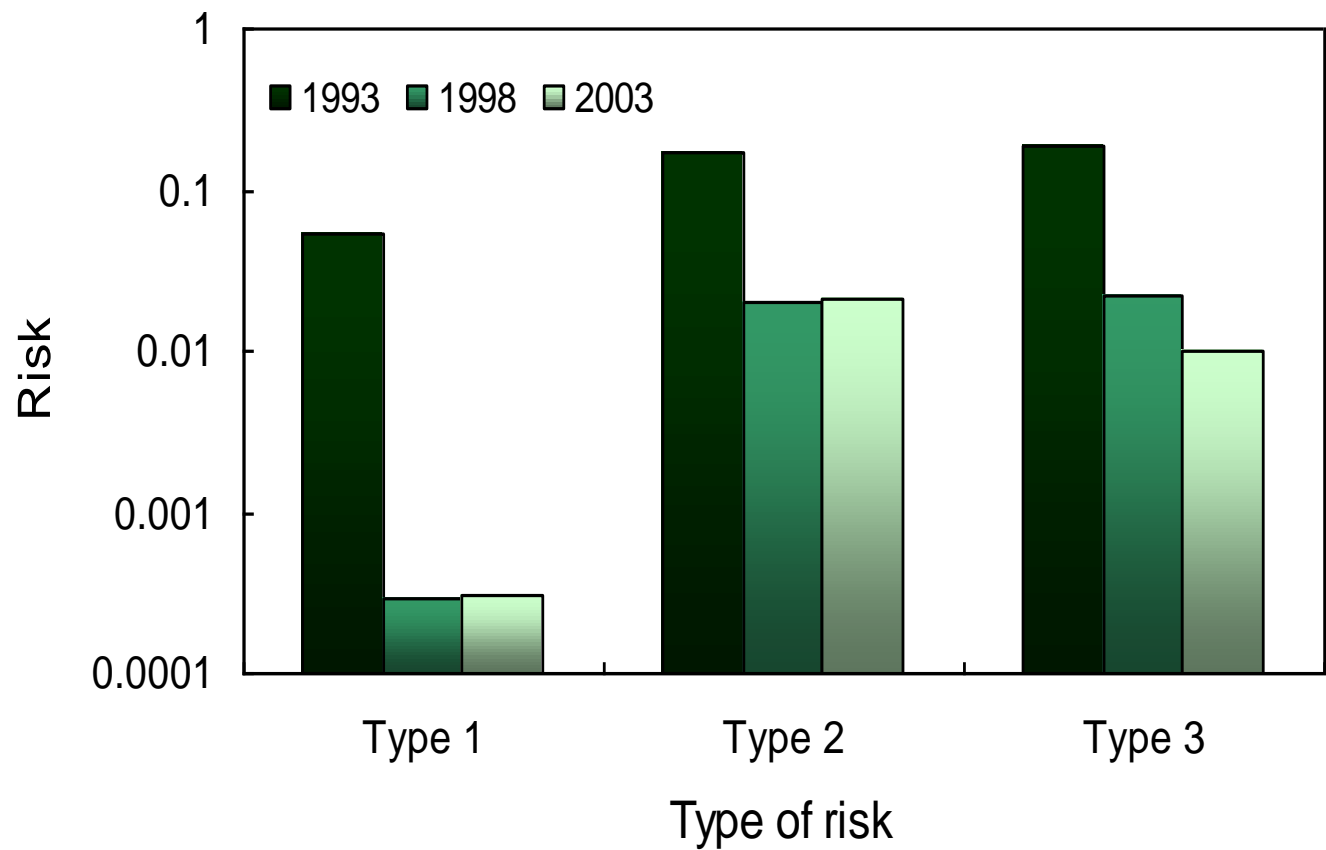
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Cultural Property Risk Analysis Model



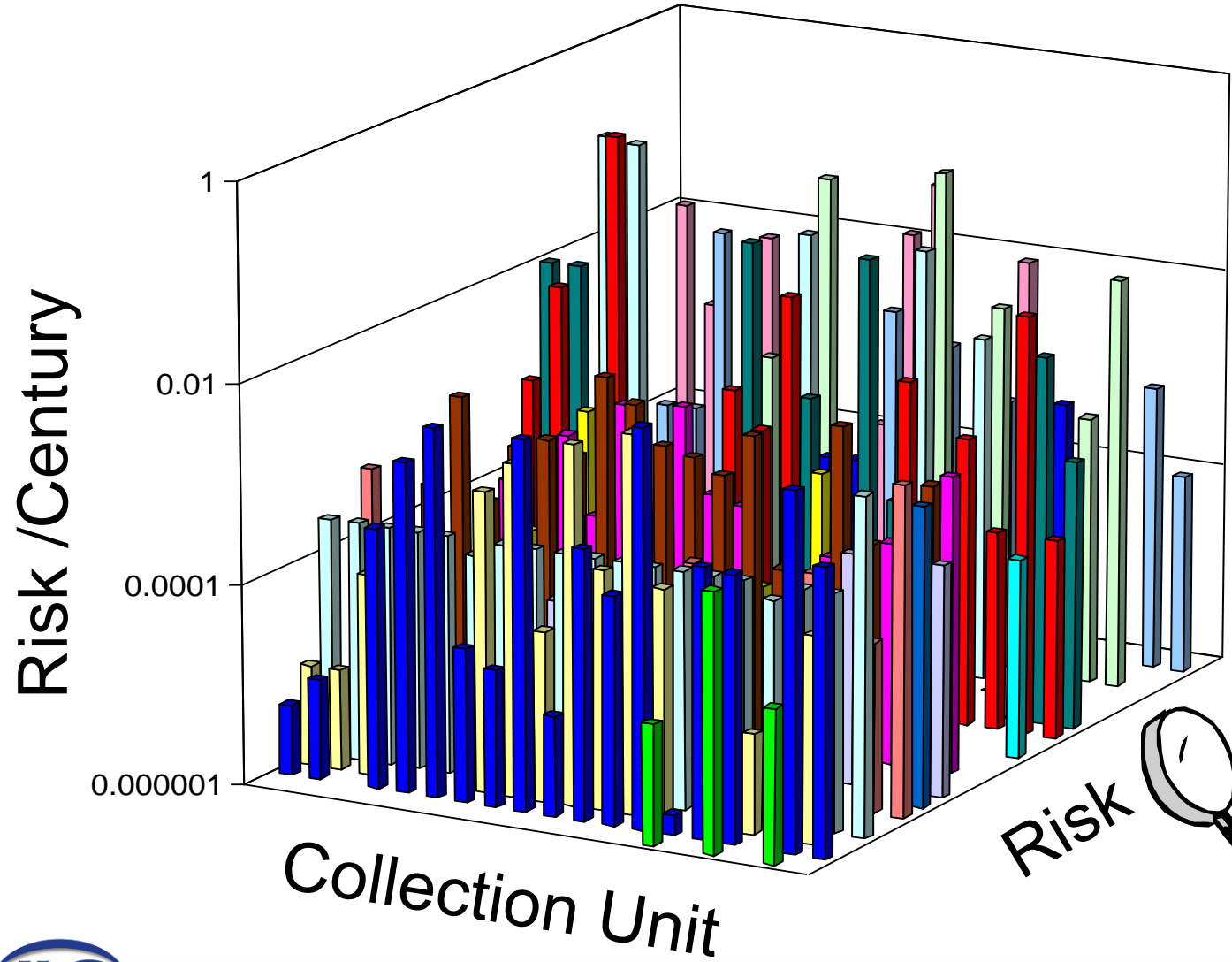
Cultural Property Risk Analysis Model



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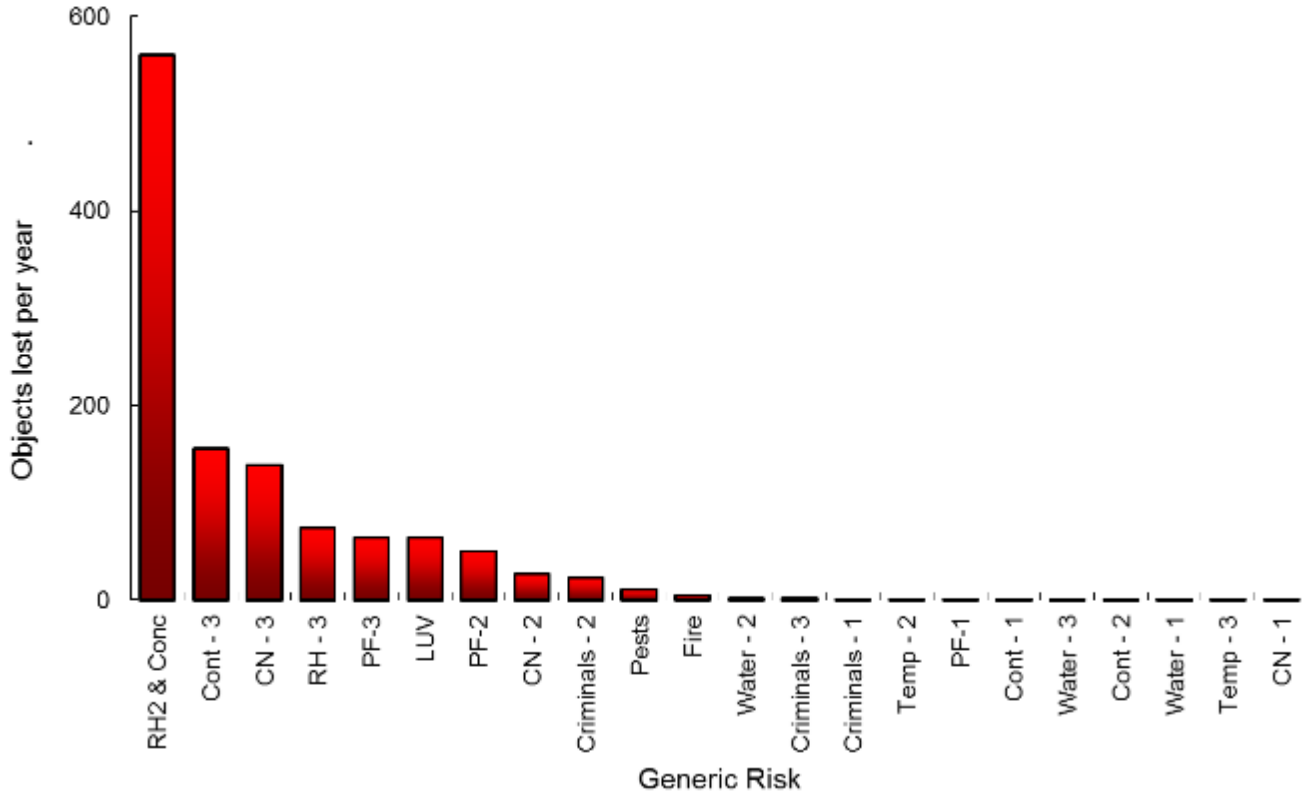
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Cultural Property Risk Analysis Model



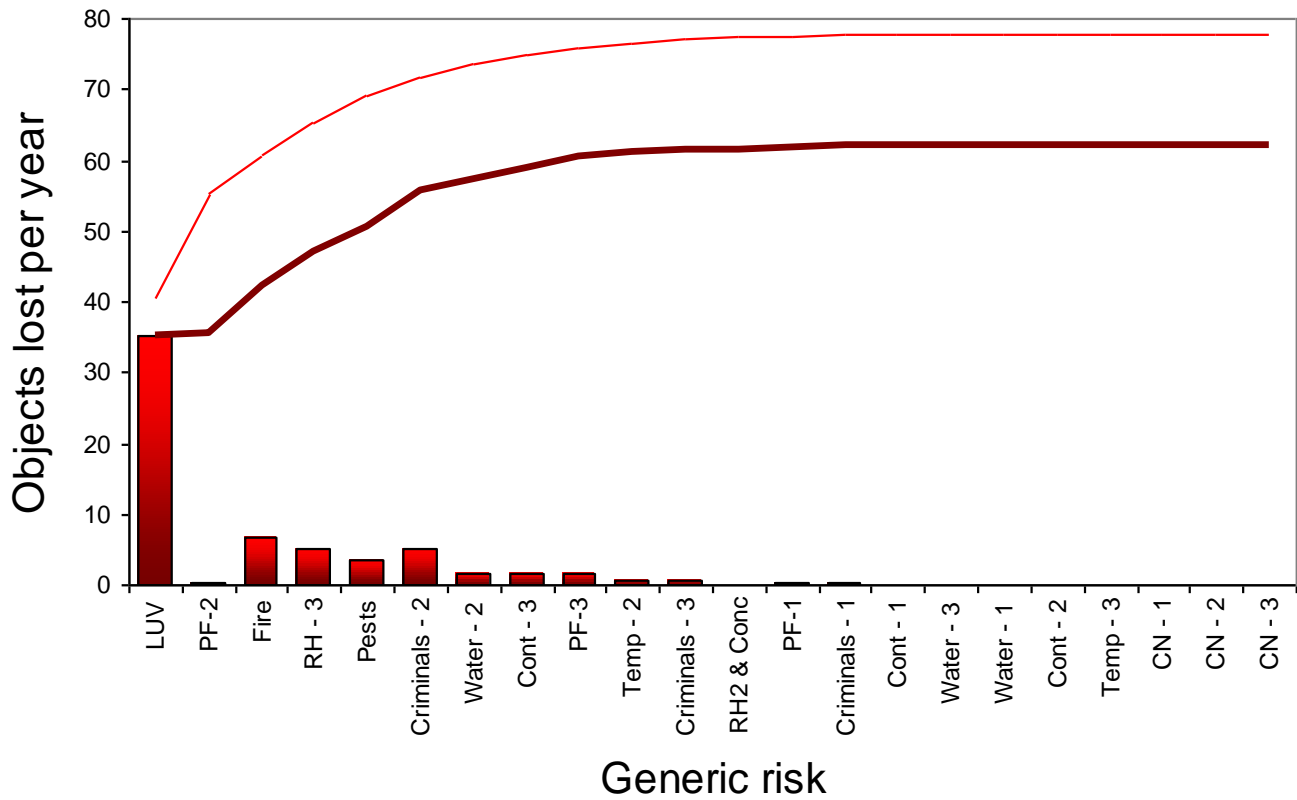
1998 Facilities share of risks

1998 Total Risk to CMN Collection



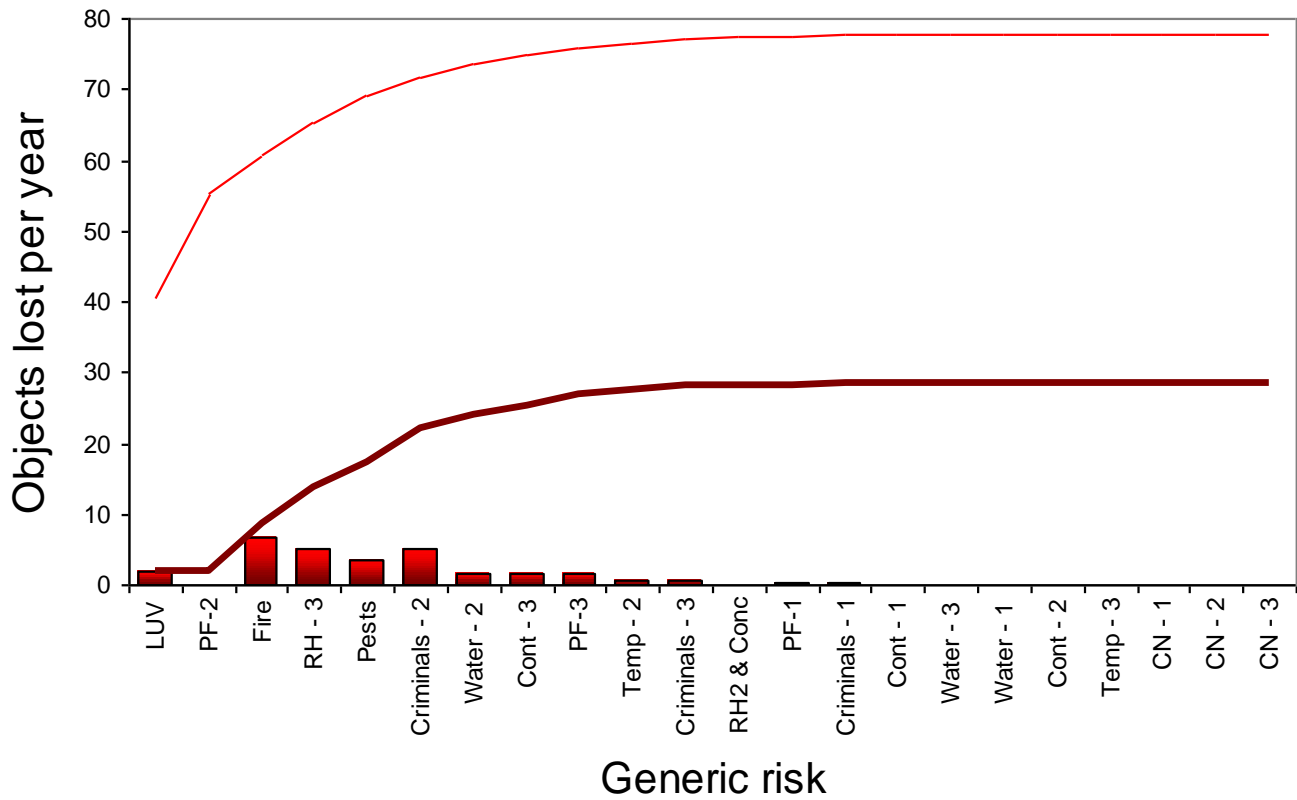
Cultural Property Risk Analysis Model

2003 Facilities management share of risks



Cultural Property Risk Analysis Model

2008 Projected Facilities share of risks



Conclusion

- CPRAM enables skillful management of preservation.
- It is not easy but ...





THANK YOU
for your
ATTENTION!

rw@protectheritage.com