



Probability Management

We gratefully acknowledge the support we have received from the following organizations



- Foundation for Creativity in Dispute Resolution
- Computer Law LLC

Probability Management

- Why
- What
- How

Probability Management: Why

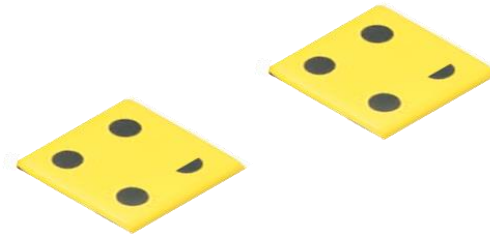
The Flaw of Averages

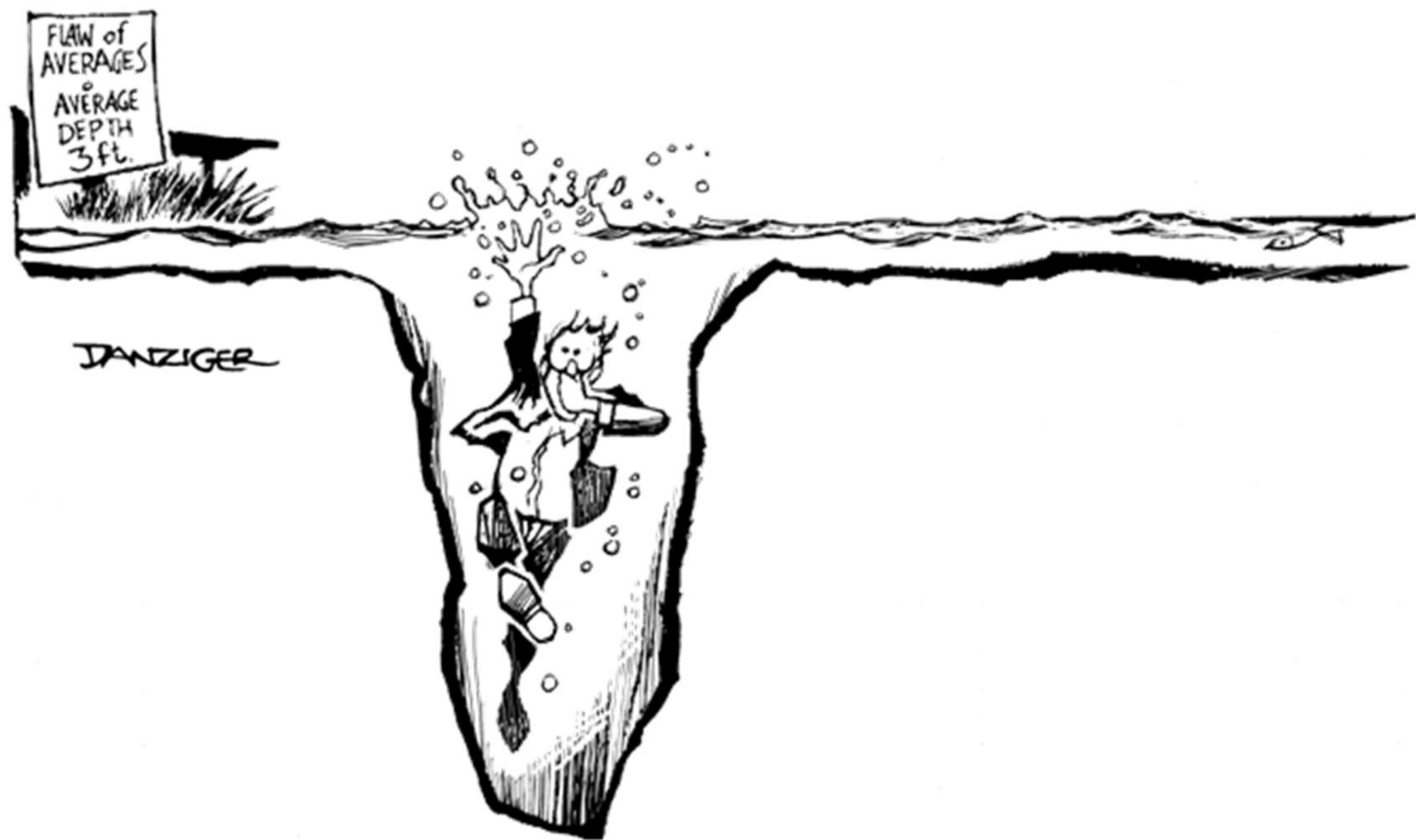
A Set of Systematic Errors That Occur When
Uncertainties are Replaced with Single Numbers

The Flaw of Averages

Plans Based on Average Assumptions

Are Wrong on Average





Explains why so many things are

Behind schedule

Below projection

Beyond Budget

Examples

Probability Management: What
Simulation Cures the Flaw of Averages
But...

Probability Management: What

The general public cannot use *simulation* because they don't know how to generate the required distributions of *random numbers*.

Does this mean the general public cannot use *lightbulbs* because they don't know how to generate the required *electricity*?

Probability Management: What The Power Grid of Probability

The “Electricity” Represents Uncertainties as Arrays of Auditable Data (SIPs). Stochastic Information Packets

The “60 Cycle AC 110 standard” is the SIPmath™ Standard, which guides the structure and Meta Data of the SIPs.

SIPs are vectors of potential outcomes of an uncertainty.

Probability Management: What

Why Now?

Microsoft Excel became powerful enough to process SIPs without macros or add-ins.

Probability Management: What

“Transformational”

Gartner Inc.

Examples

SIPmath™ Open Standard for Conveying Uncertainty

- Actionable
- Additive
- Auditable
- Agnostic



Not
Actionable

Actionable

Making
Toast

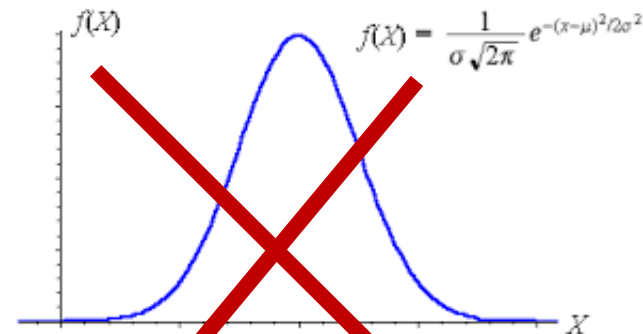


~~900 W
60 cycle
AC 120v~~



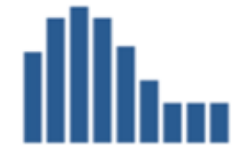
Making
Decisions
Under
Uncertainty

Cost per Unit	\$30
Selling Price per Unit	\$40
Actual Demand (Uncertain)	100,000
Average	100,000
Decision: Quantity Ordered	100,000
Sales	100,000
Revenue	\$4,000,000
Cost of Goods Sold	\$3,000,000
Profit	\$1,000,000



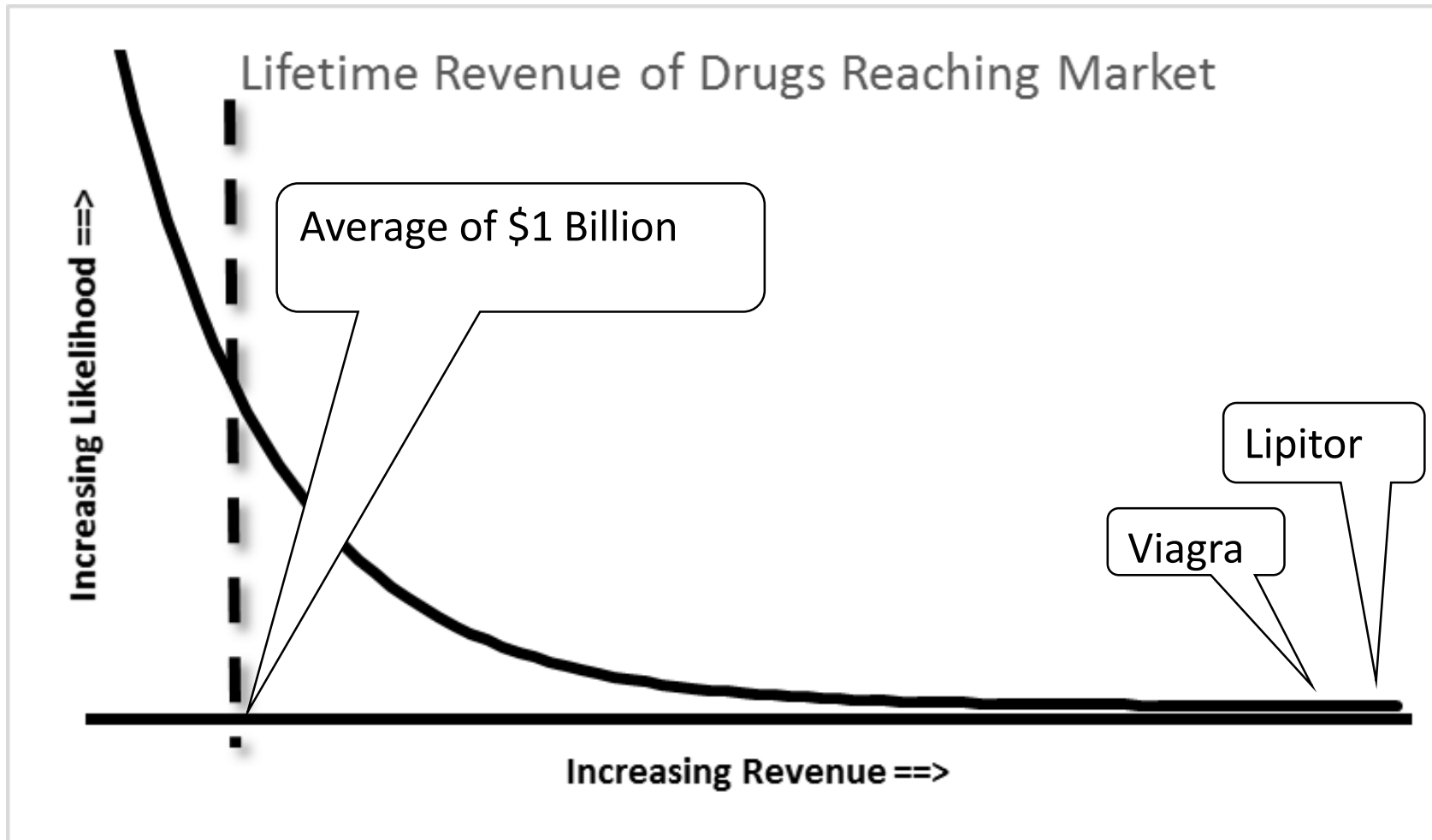
~~Demand is Normal
 $\mu=100, \sigma = 15$~~

SIPmath™ 2.0
Certified



Probability
Management.org

Additive



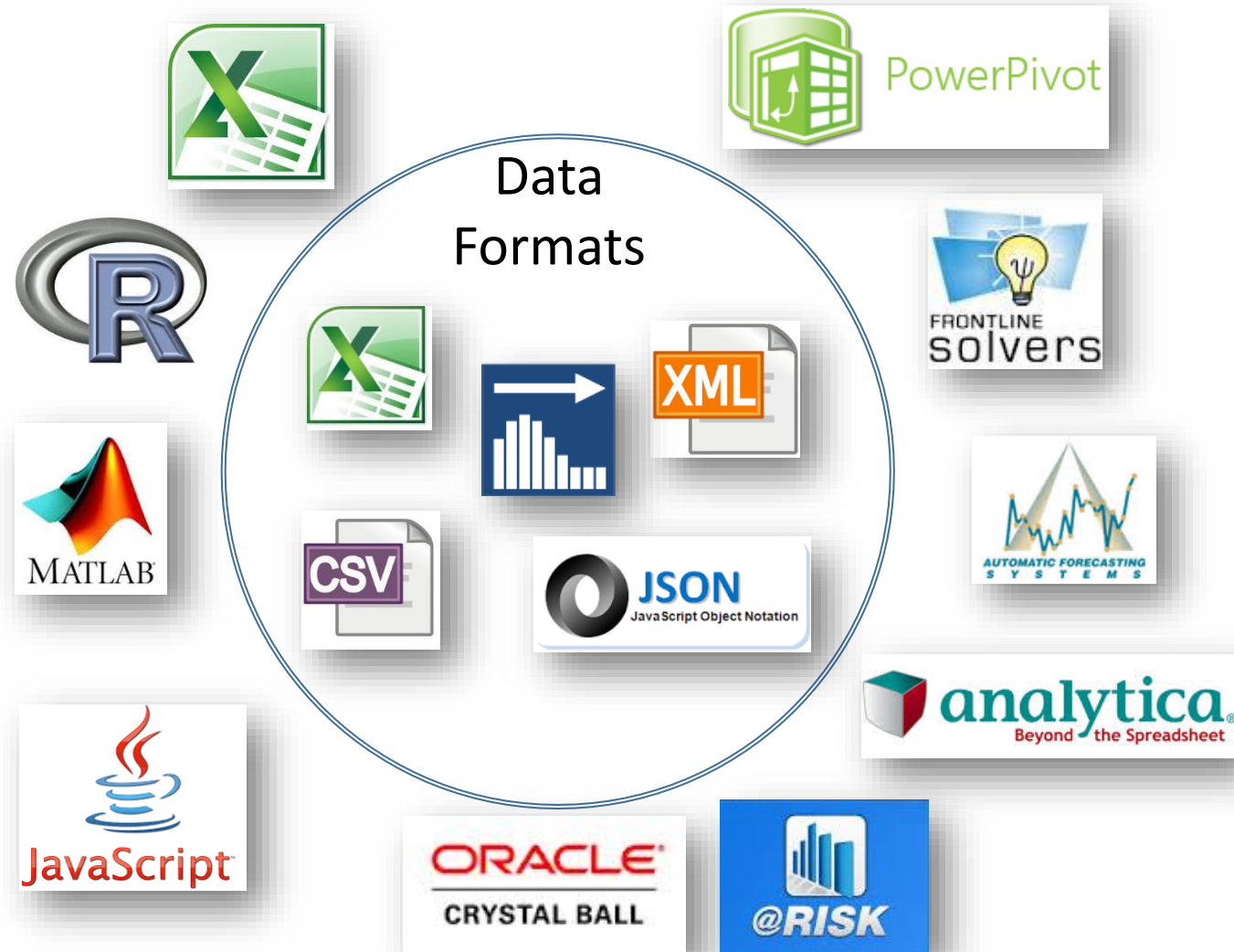
Auditable

Distributions Stored as Auditable
Data with Provenance

Agnostic



Modeling Environments



- Actionable
- Additive
- Auditable
- Agnostic

Probability Management: How

That's what the conference is about

So no one is representing uncertainties using averages any more, right?