



Product Safety Engineering Society
Taipei Chapter

IEC 62368-1: What it is, and What it isn't

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Date: April 27, 2012



A little clarification... HBSE vs. IEC 62368-1

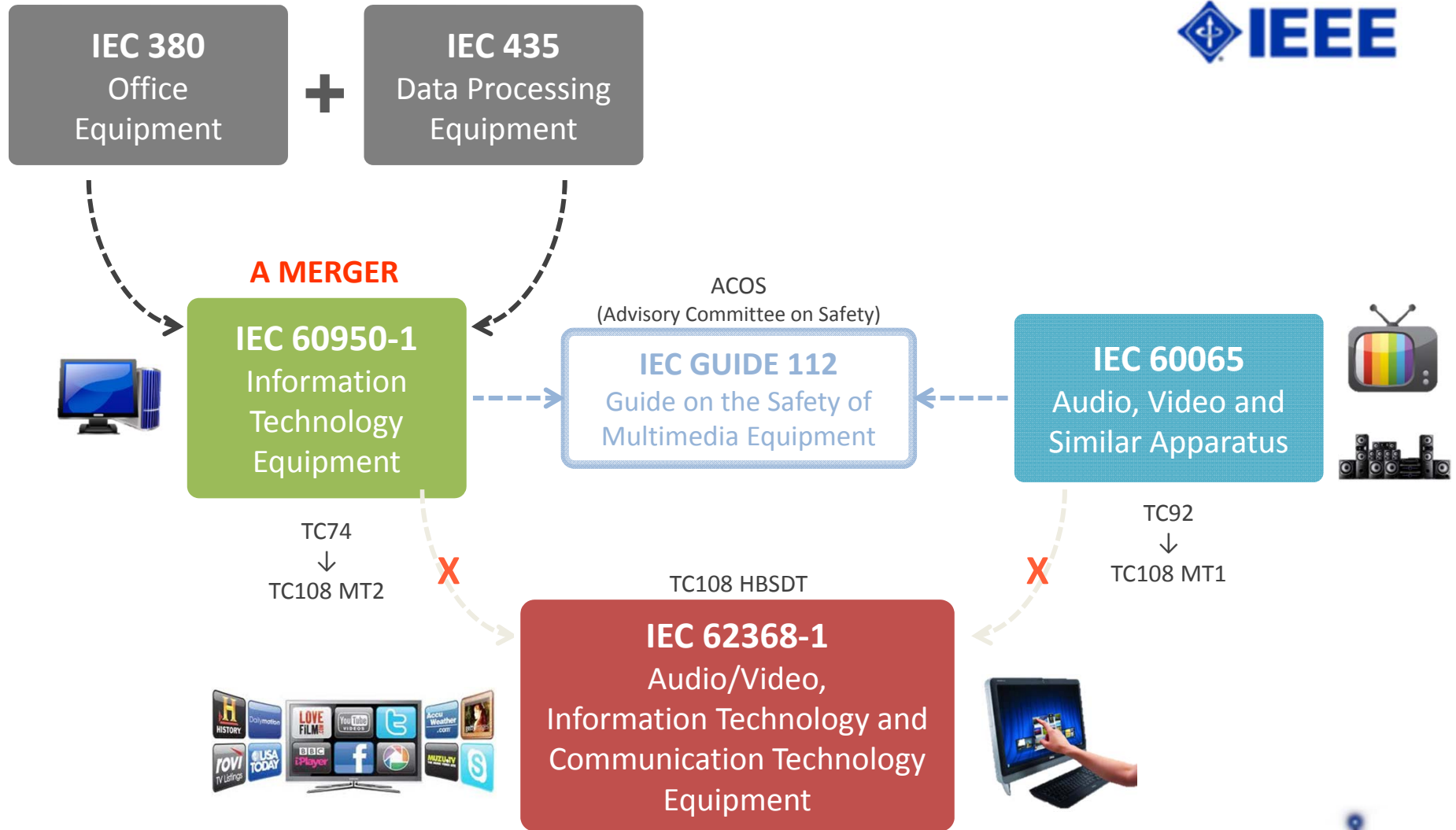
HBSE (Hazard-Based Safety Engineering)

- Is a comprehensive **engineering process** to design safe products.

IEC 62368-1

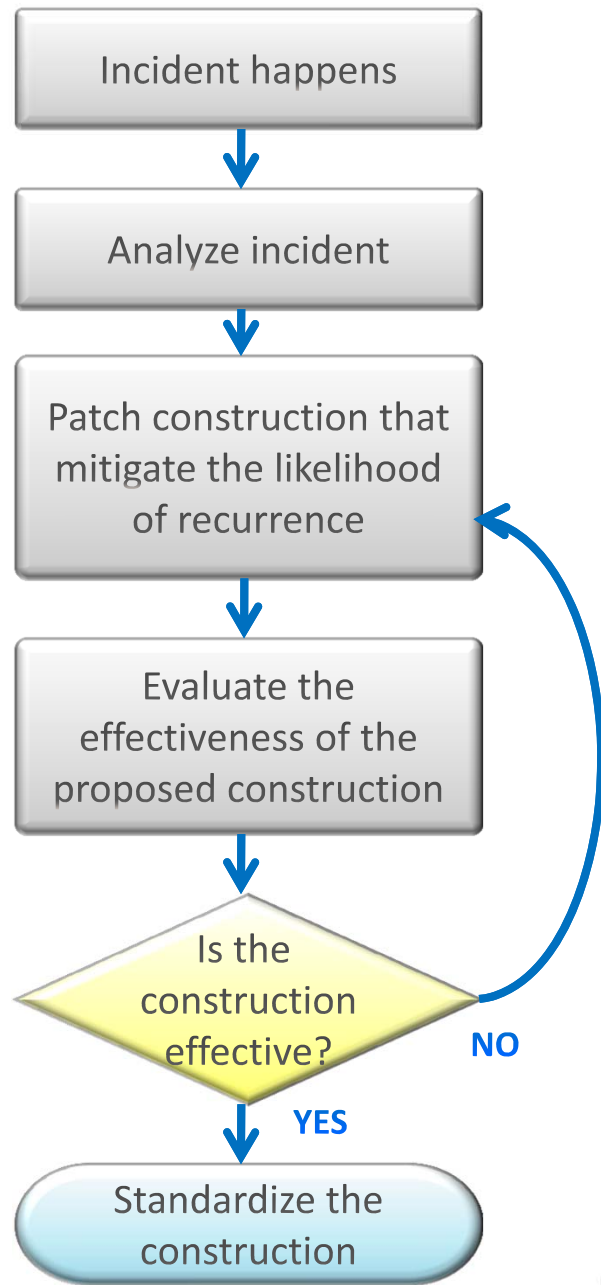
- Leveraged HBSE approach but is **not a full risk-based standard** (none required)—thus is compatible with IECEE CB Scheme.
- Does have specific requirements and compliance criteria.
- Has more performance-based options to demonstrate safety;
- To promote smooth transition, current prescriptive approach (carried over from IEC 60065 and IEC 60950-1) are reserved.





Sound Engineering Principles incl. HBSE,
IEC Basic Safety Publications, Research and Field Data





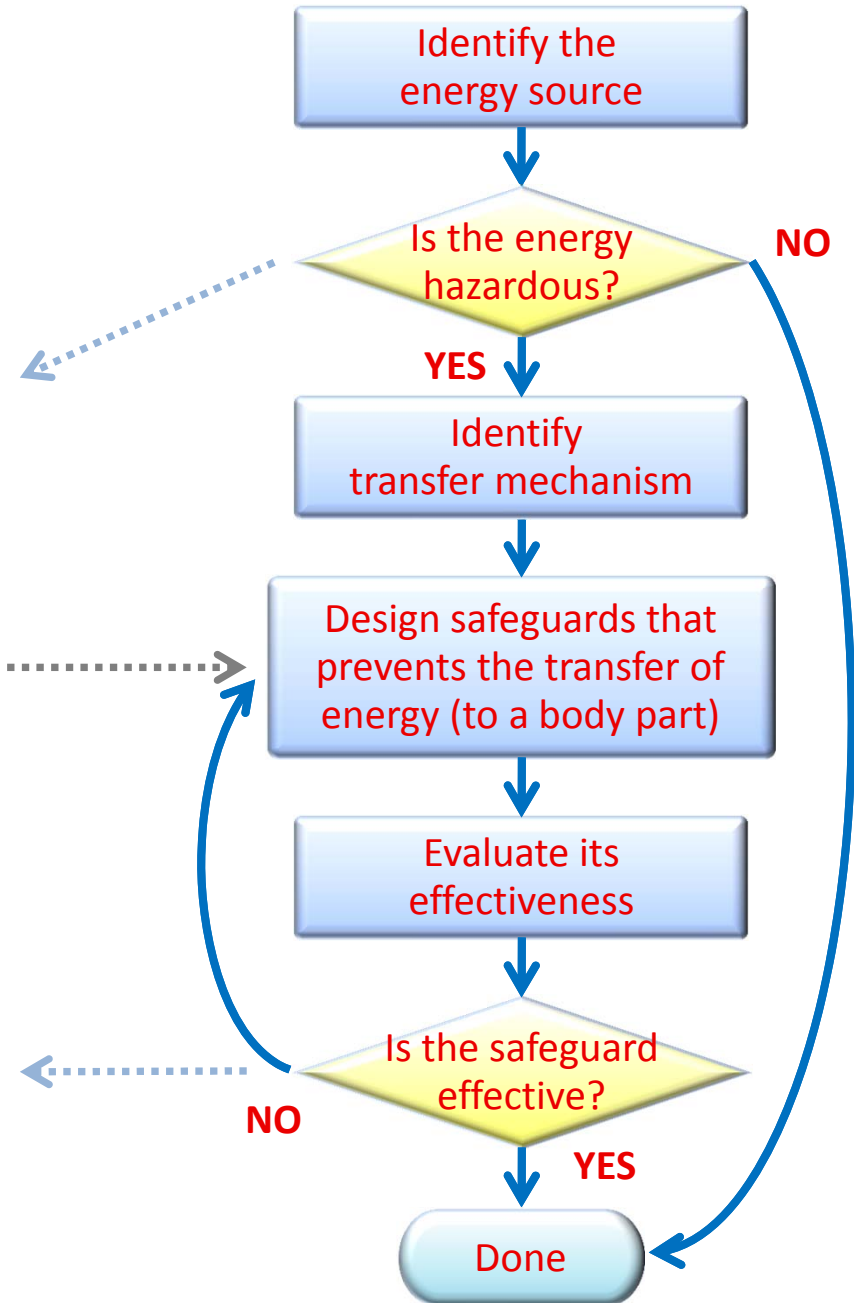
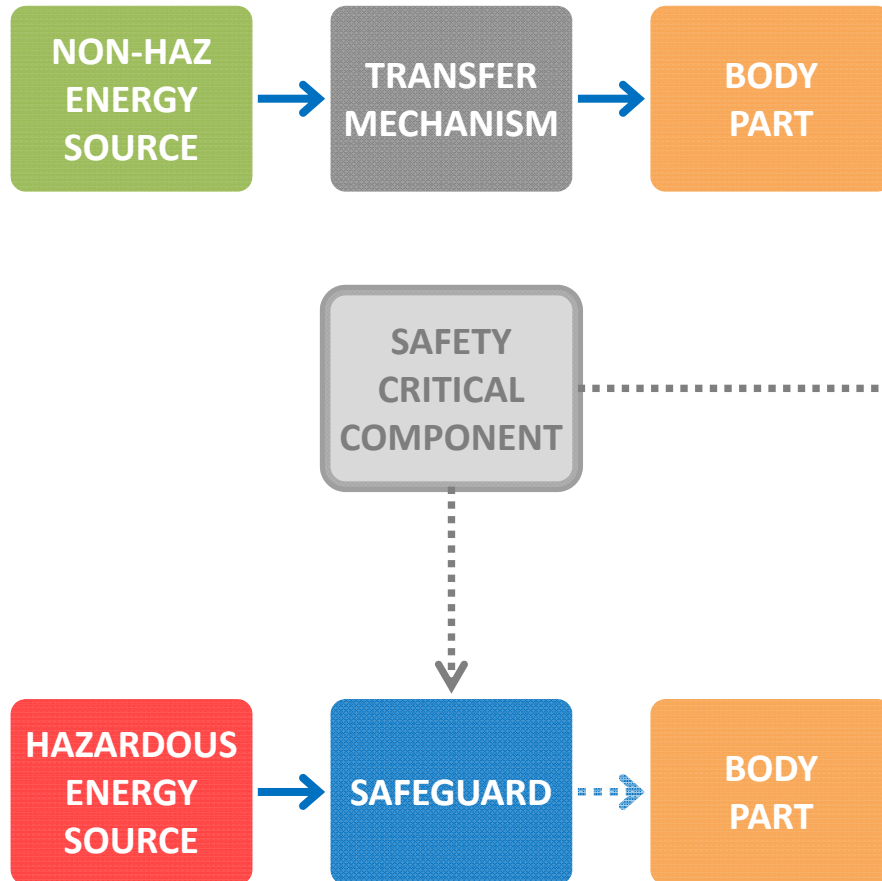
INCIDENT-BASED SAFETY ENGINEERING:

Used with permission from Richard Nute



HAZARD-BASED SAFETY ENGINEERING:

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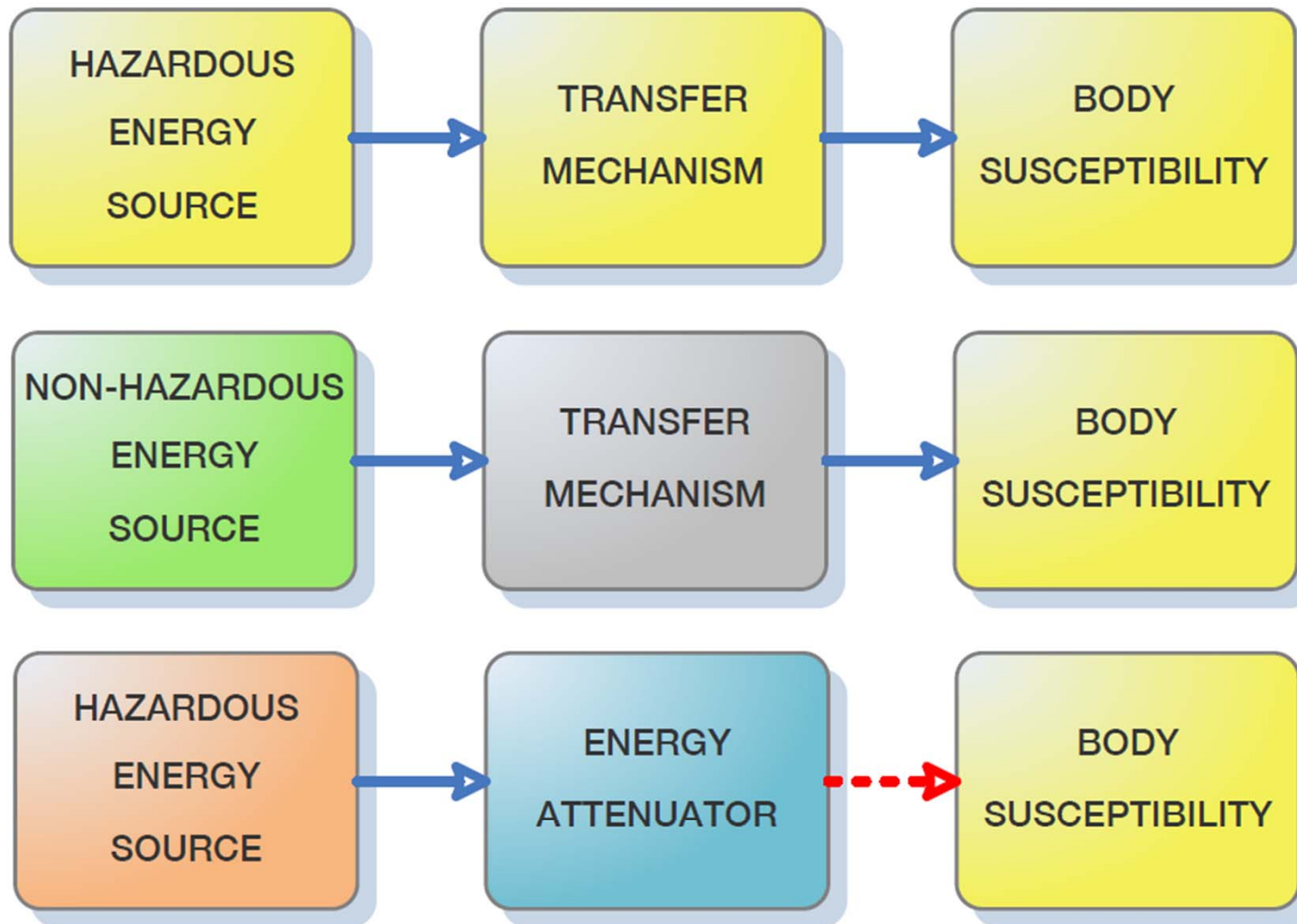
IEC 60950-1 vs. IEC 62368-1

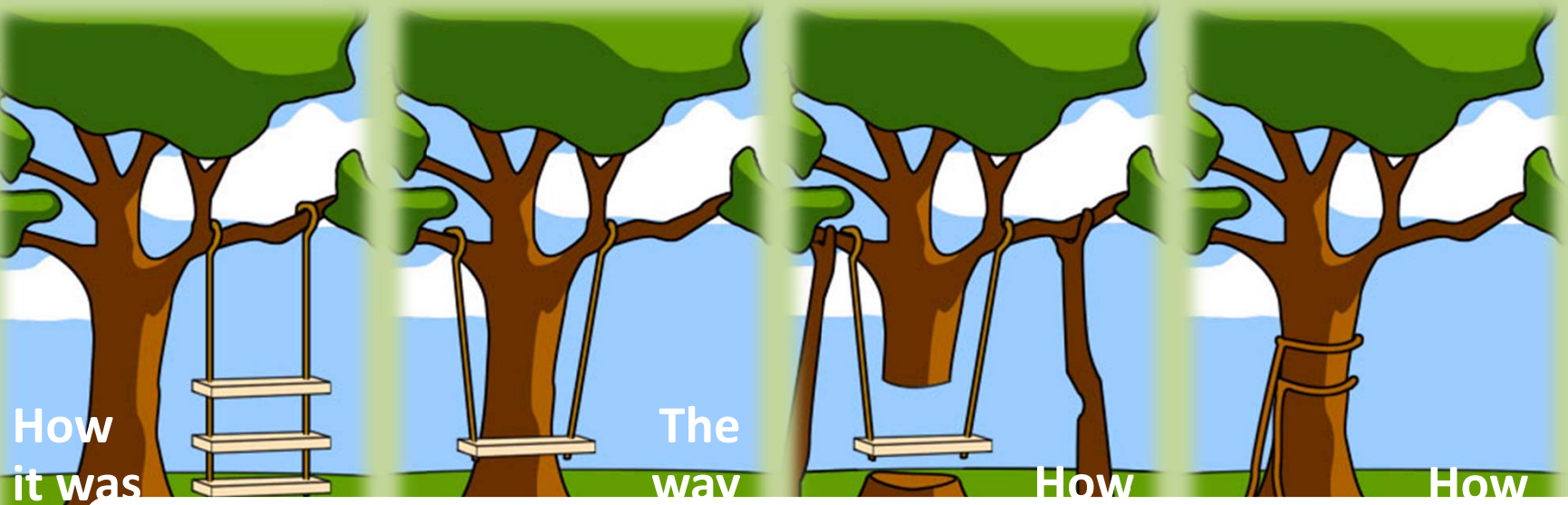
IEC 60950-1
incident-based
product-specific
construction-based
reactive

IEC 62368-1
hazard-based
tech. independent
performance-based
proactive

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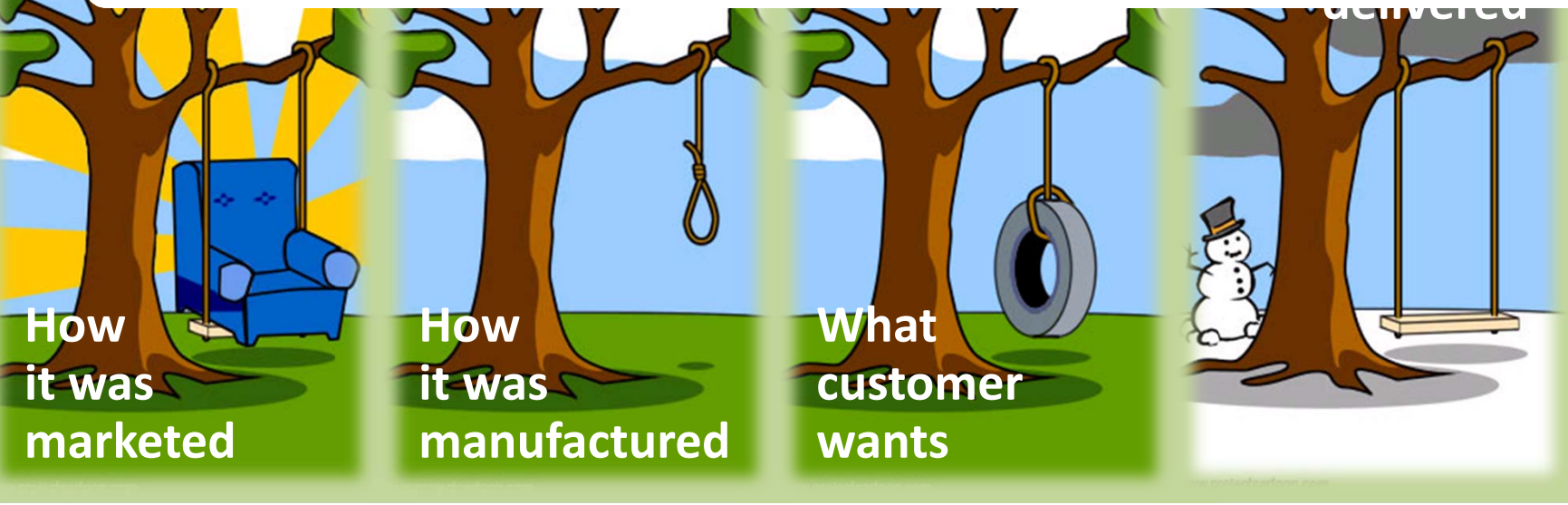
How it was intended to be

The way

How

How

We need a common language to ensure efficiency within the entire supply chain!



How it was marketed

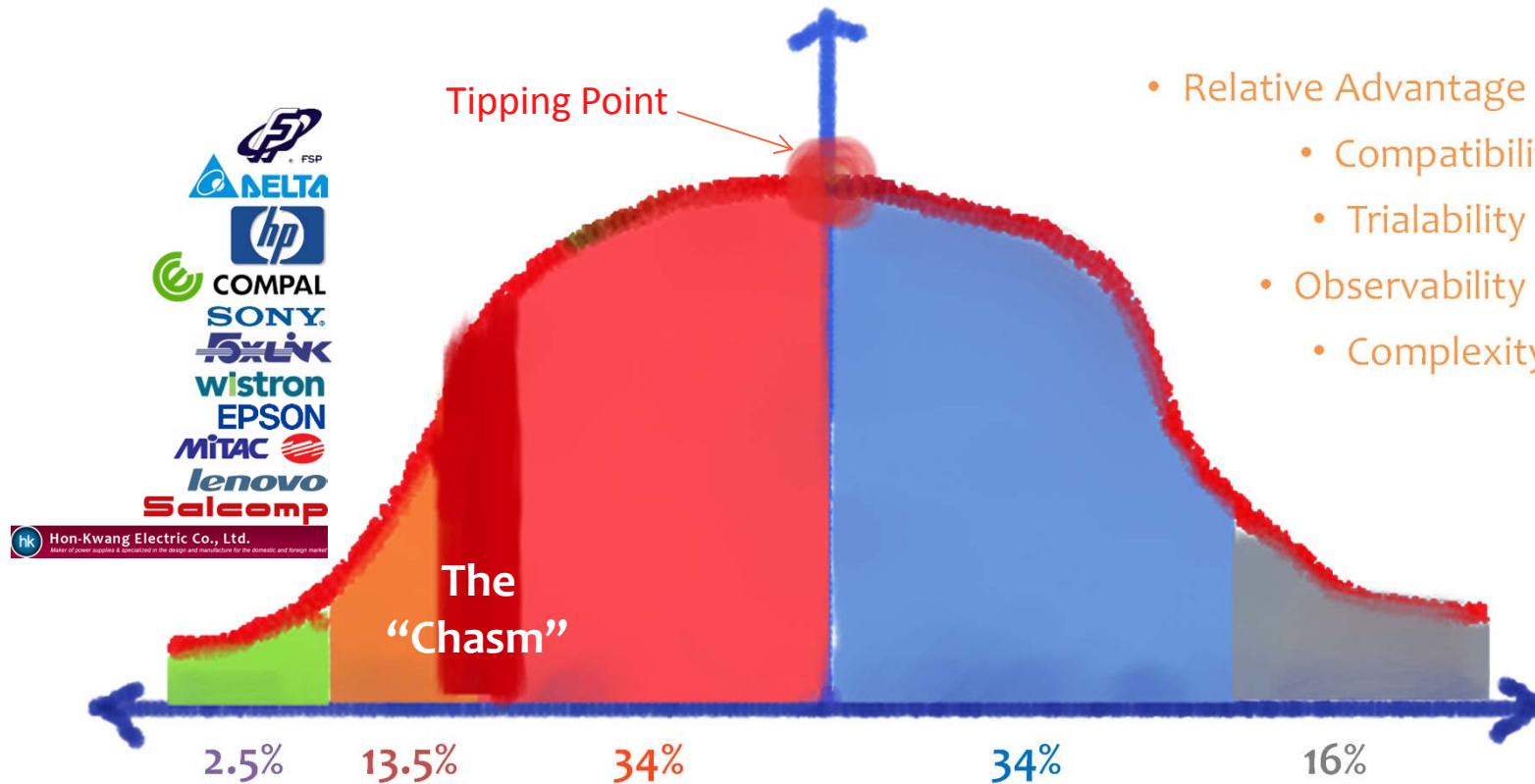
How it was manufactured

What customer wants

- Innovators 創新者 2.5%
- Early Adopters 早期採用者 13.5%
- Early Majority 早期多數 34%
- Late Majority 晚期多數 34%
- Laggards 落後者 16%

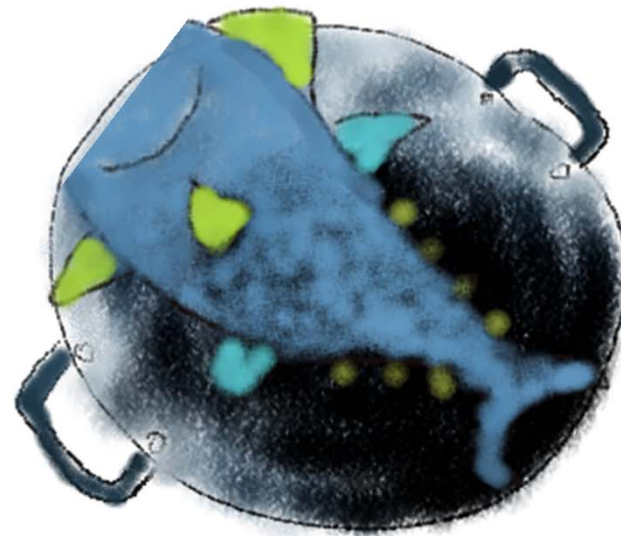


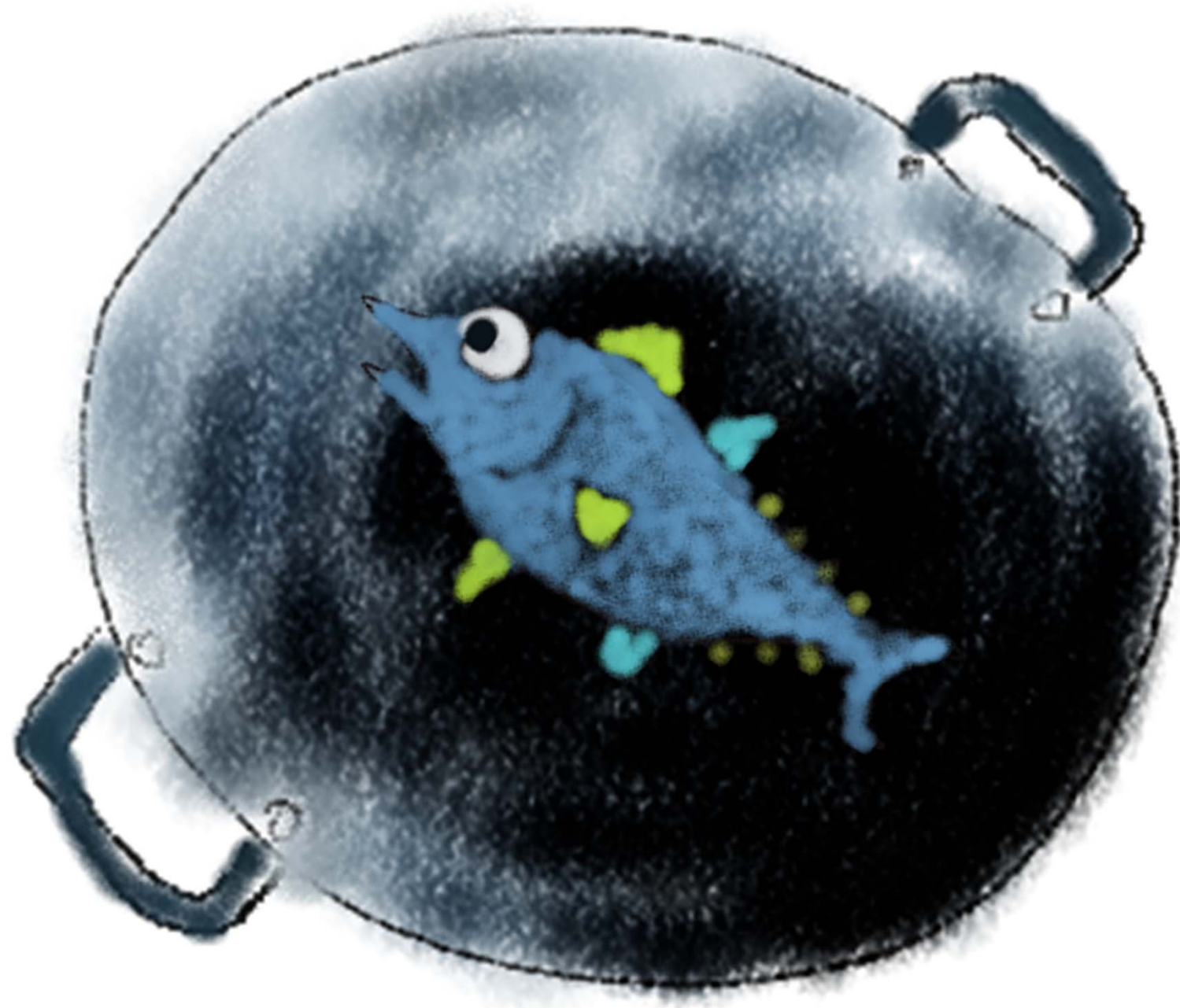
Everett M. Rogers
1931-2004

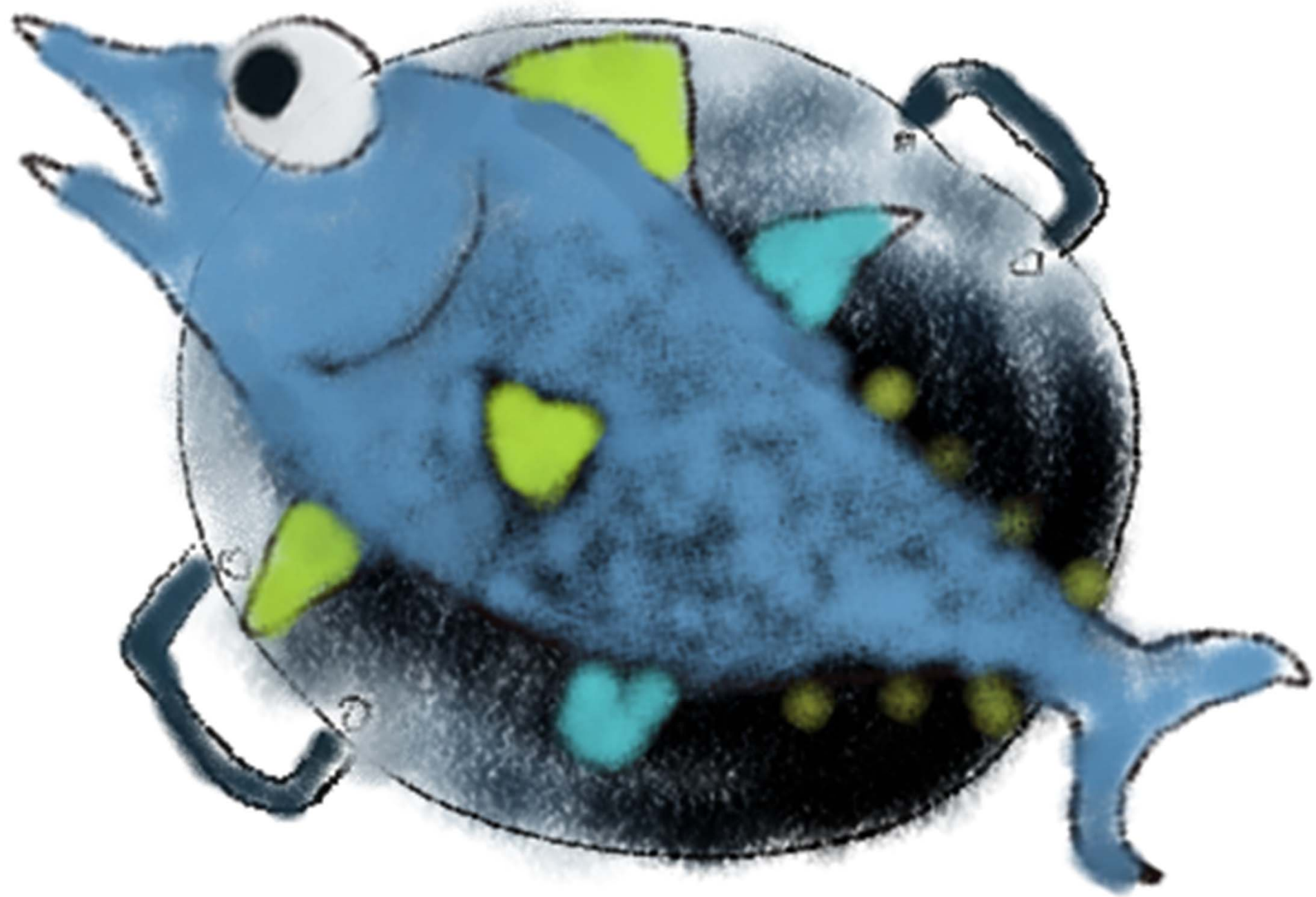


- Relative Advantage 相對優點
 - Compatibility 相容性
 - Trialability 可試用性
 - Observability 可觀察性
 - Complexity* 複雜性

My grandma always told me to cut
the fish's head off before you cook









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謝謝大家的時間！

