

HSSE - Acumen Safety Learning Model

Part 1: The Acumen Safety Model

Part 2: Applying the Safety Model: Heat Stress & Weather Awareness

Part 3: Applying the Safety Model: Labour Welfare & Site Visibility

Part 1: The Acumen Safety Learning Model

Introduction

Acumen

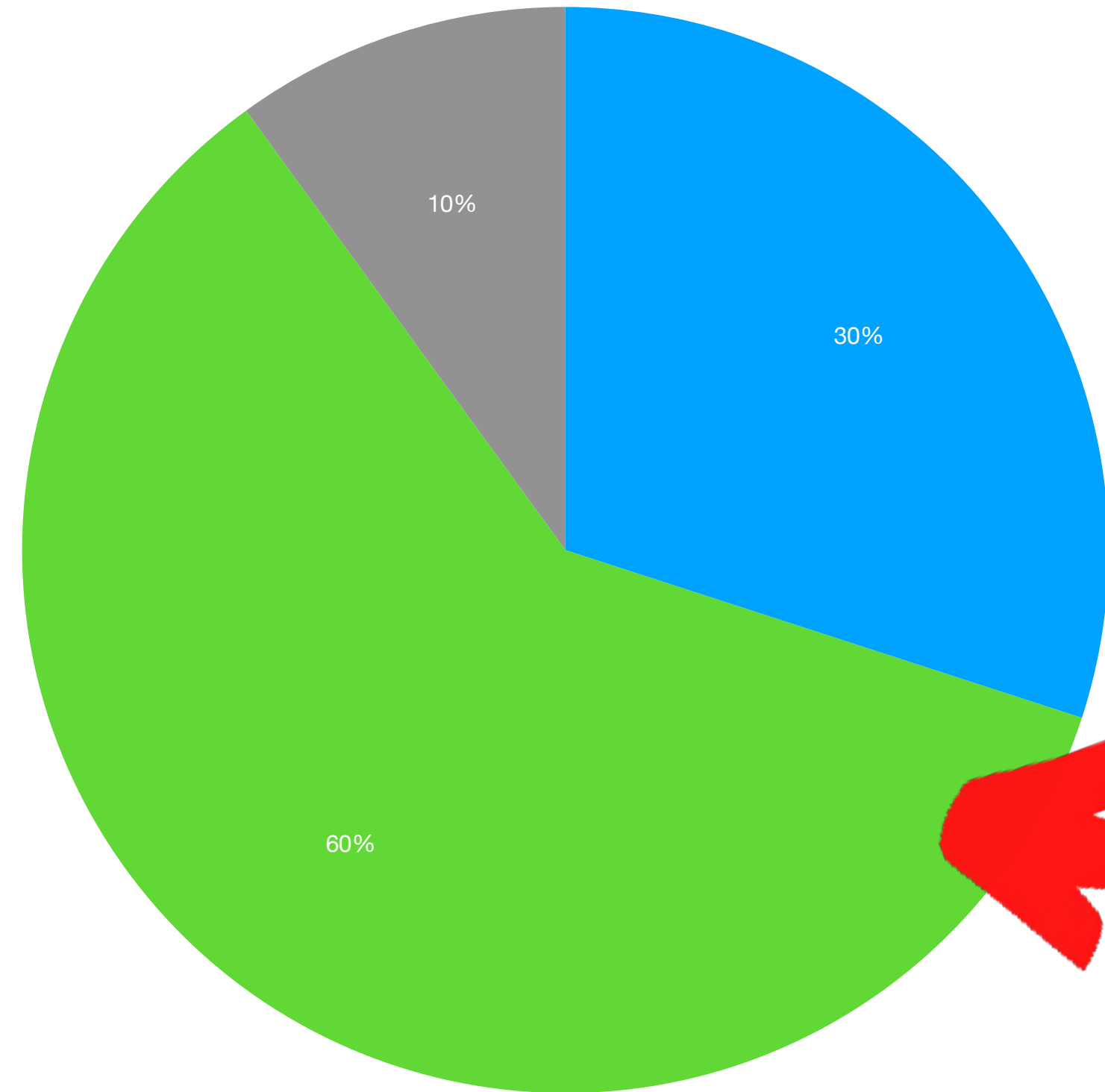
- Delivering Safety Management Solutions since 2004
- Supporting over 200 clients
- Over 100,000 users
- 350 million transactions

Paul Robinson PhD

- Blends his academic track record with 20 years industry experience in technology and safety solutions working for organisations
- Working with NHS Patient Safety Program, Skanska, Qatar Foundation. Microsoft, Amey, AVOVE, Pitney Bowes, Balfour Beatty and many others.

Data, Data & More Data

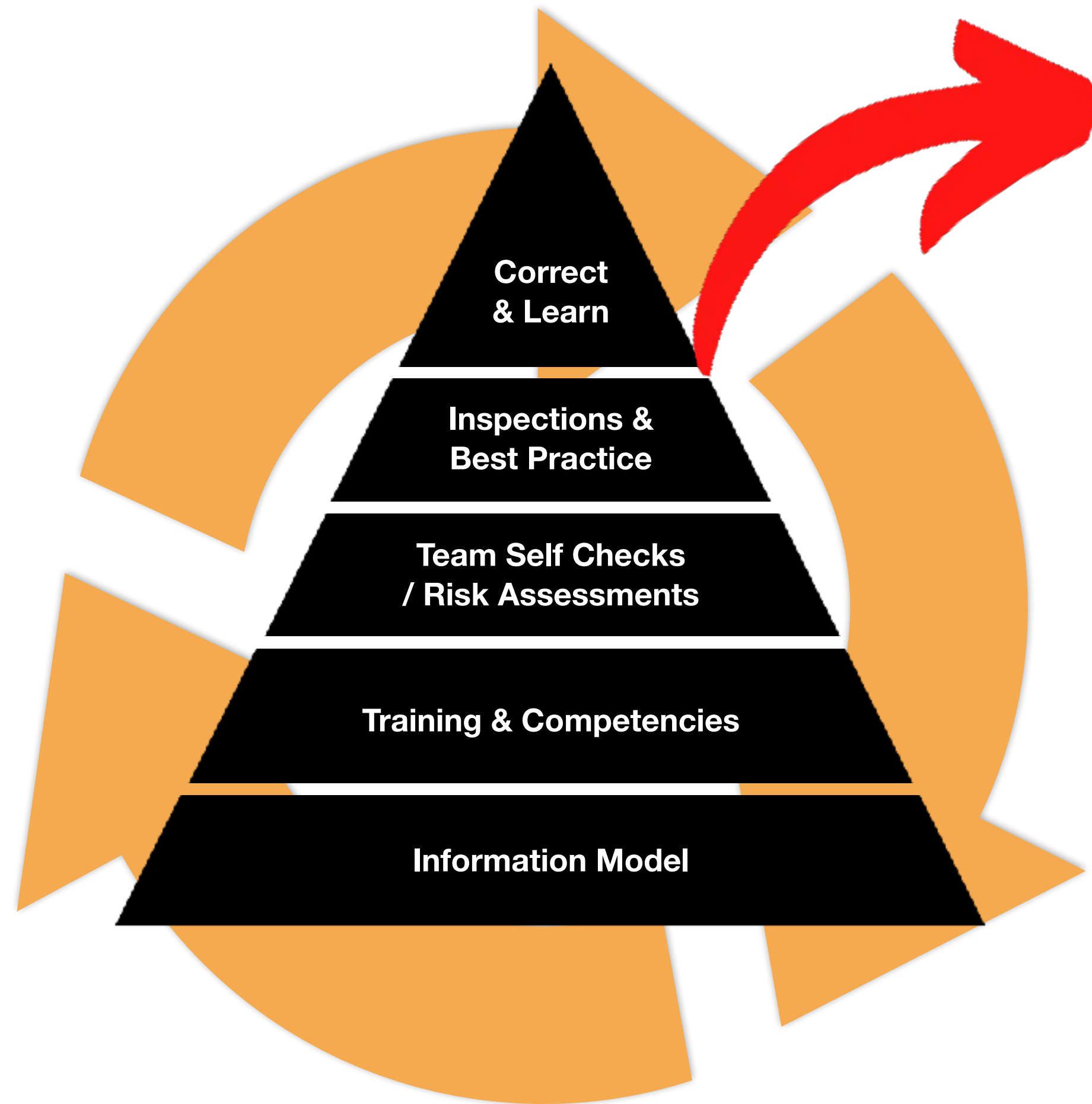
● Health ● Safety ● Wellbeing



20% Heat & Weather
40% Labour Safety & Welfare
30% Failure in Laws

Incident Types - All Data

The Acumen Safety Model



This model can have a direct impact on how we all can:

- Improve heat stress & awareness by reducing injuries caused by weather.
- Improve labour welfare conditions by complying to regulations & laws

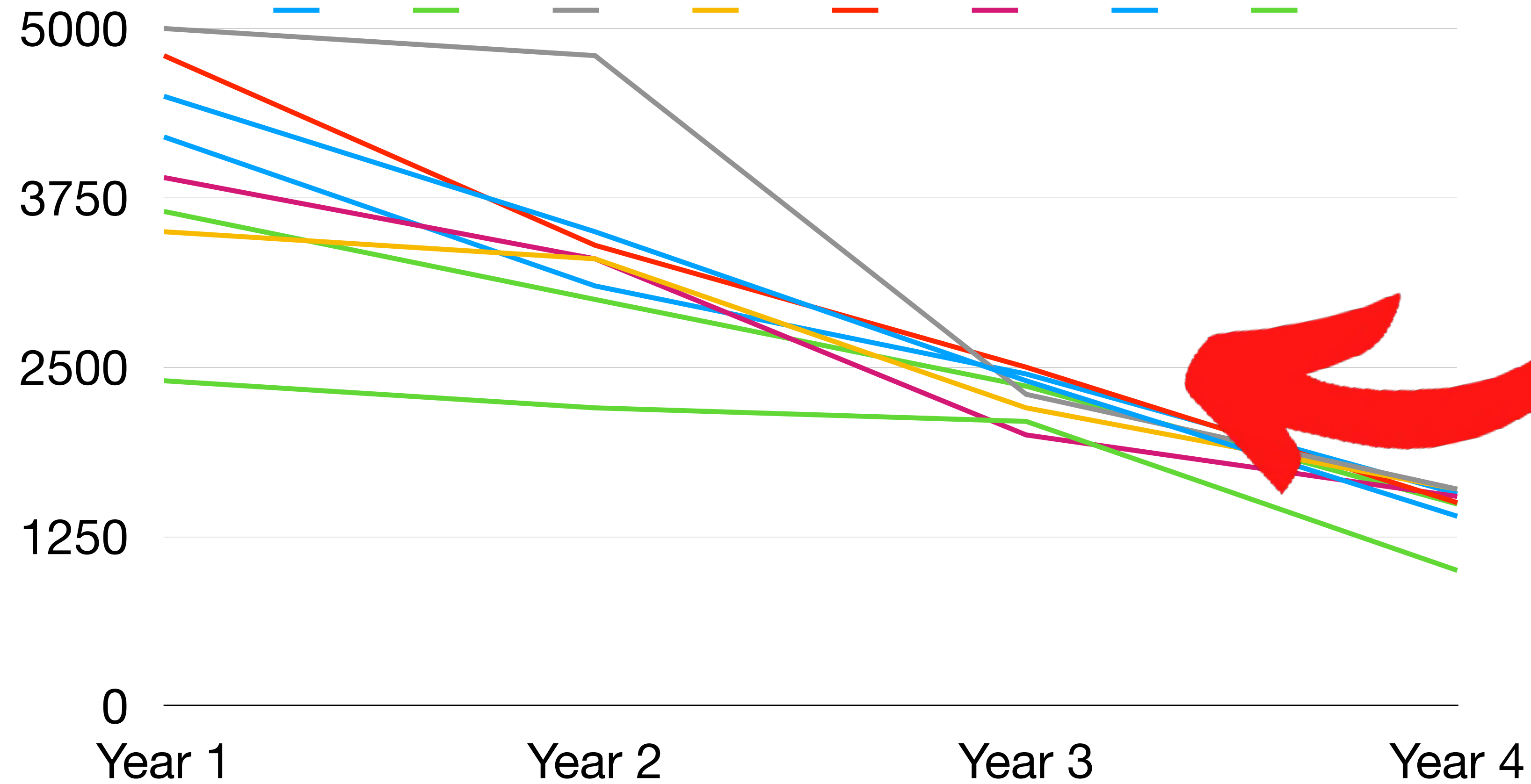
Reduce injury & deaths

Reduce fines

Reduce possibility of bad PR



Change Can Happen

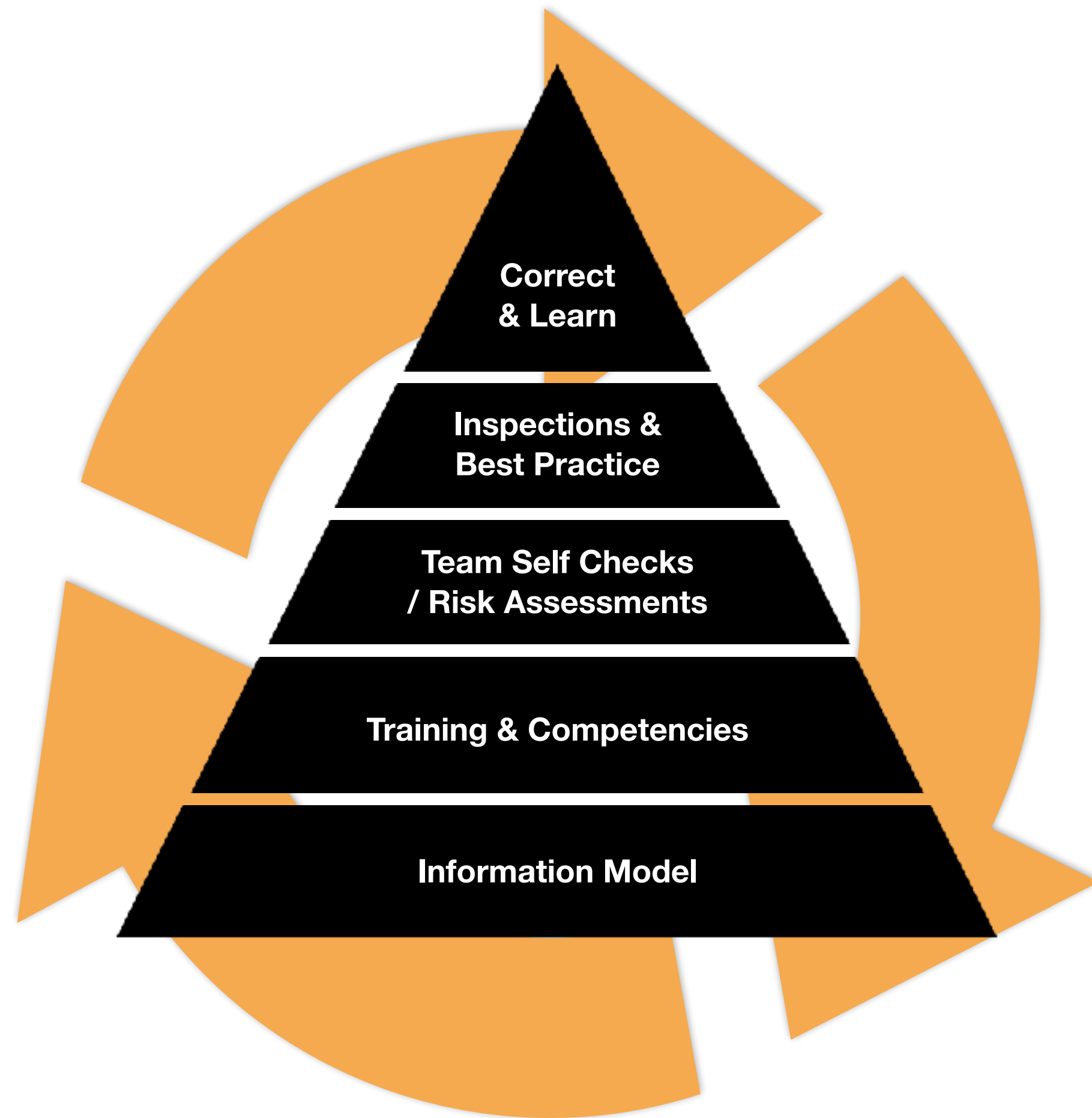


Implement the right model and you can make a difference to safety.



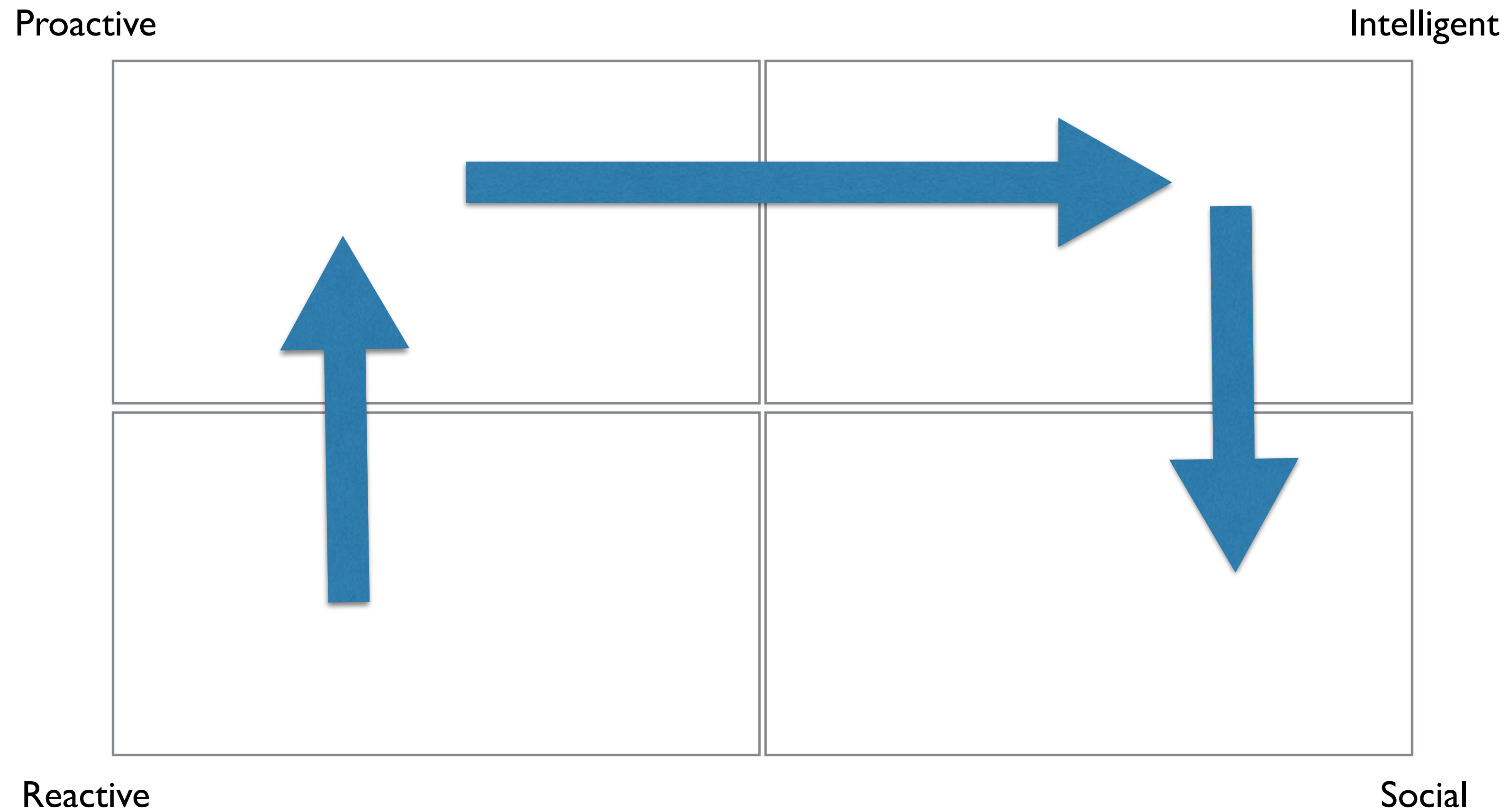
Safety Incident Progression After Acumen

The Acumen Safety Model - Removing Information Barriers

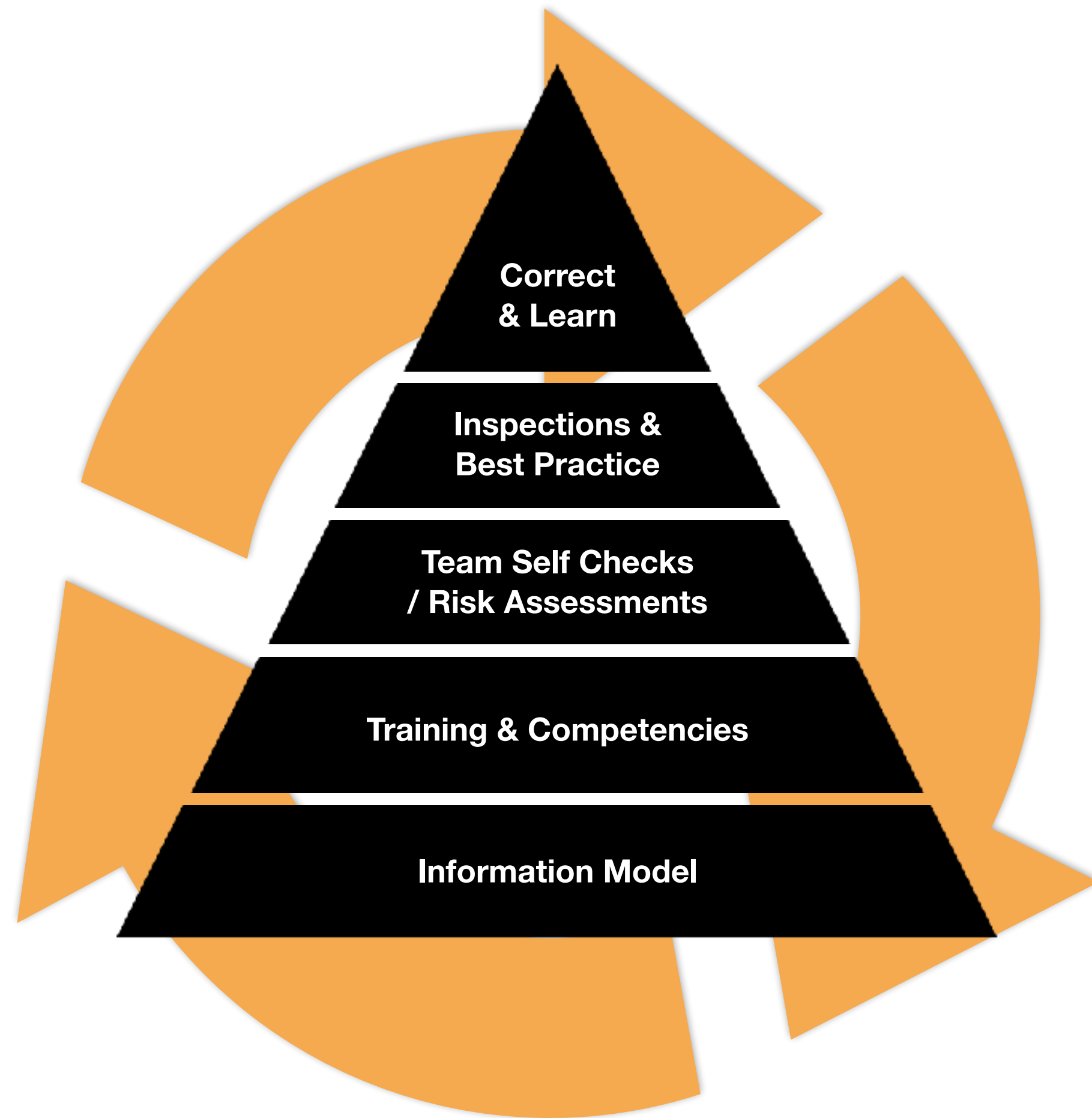


- People are Multi-Dimensional
- Communication is not Flat
- People are not Isolated Islands
- Information is not Static
- Value of Information
- Information Fatigue
- Information Overload
- Miss Information + Miss-Trust
- Message Overload
- Lack of Processing Mechanisms
- Too Complex
- Missing Information

Conceptual Model - Technology Adoption



The Acumen Safety Model - Removing Technology Barriers



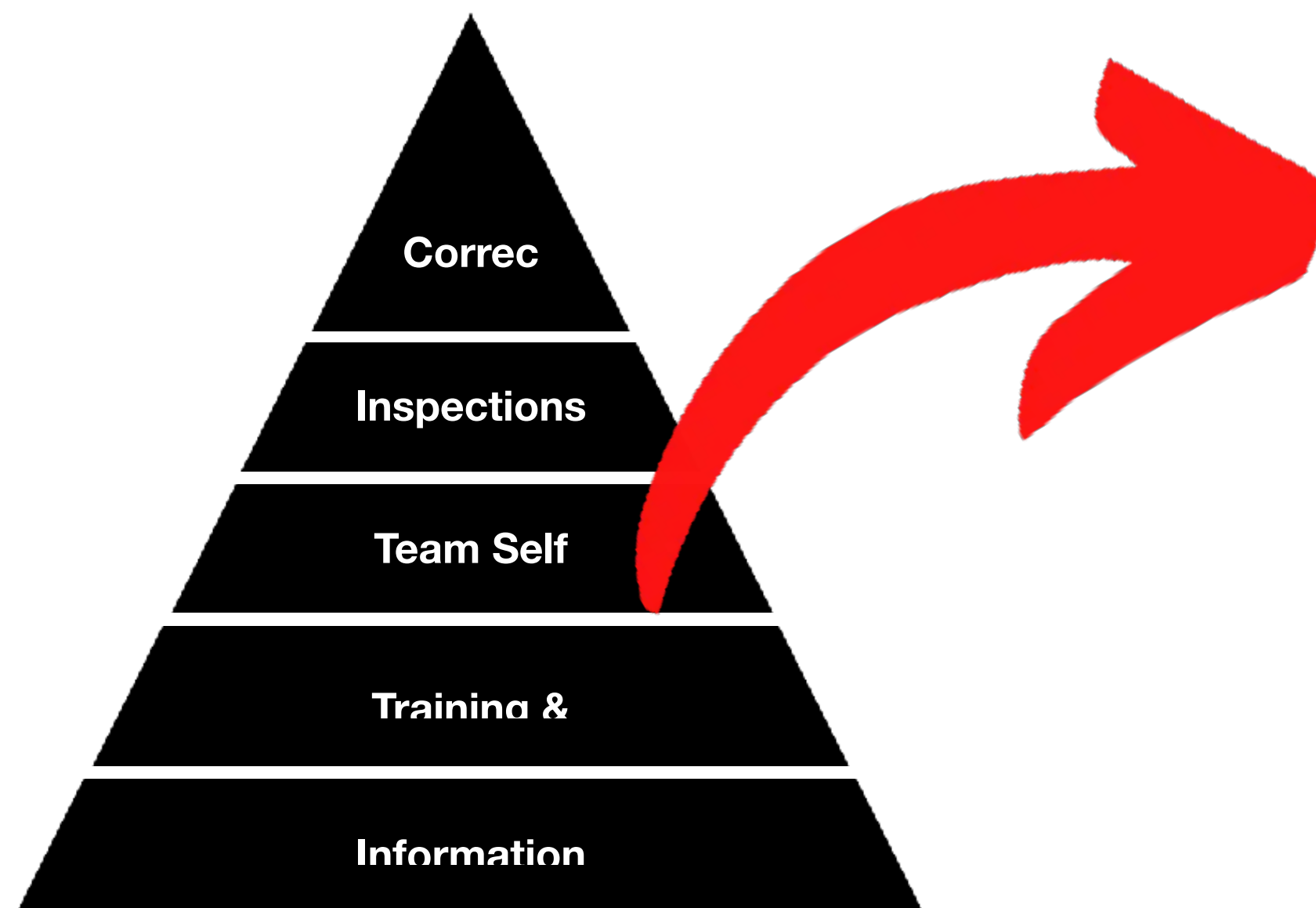
- Lack of Technology Familiarity
- Differing Approaches
- Restrictive Platforms
- Miss-match to Information Norms
- Inability to Support Cultural Change
- Lack of Intelligence
- Rapidity of Technology to Inform

Part 2: Applying the Acumen Safety Model

Heat Stress & Weather Awareness

Heat Stress & Weather Awareness - The Challenge

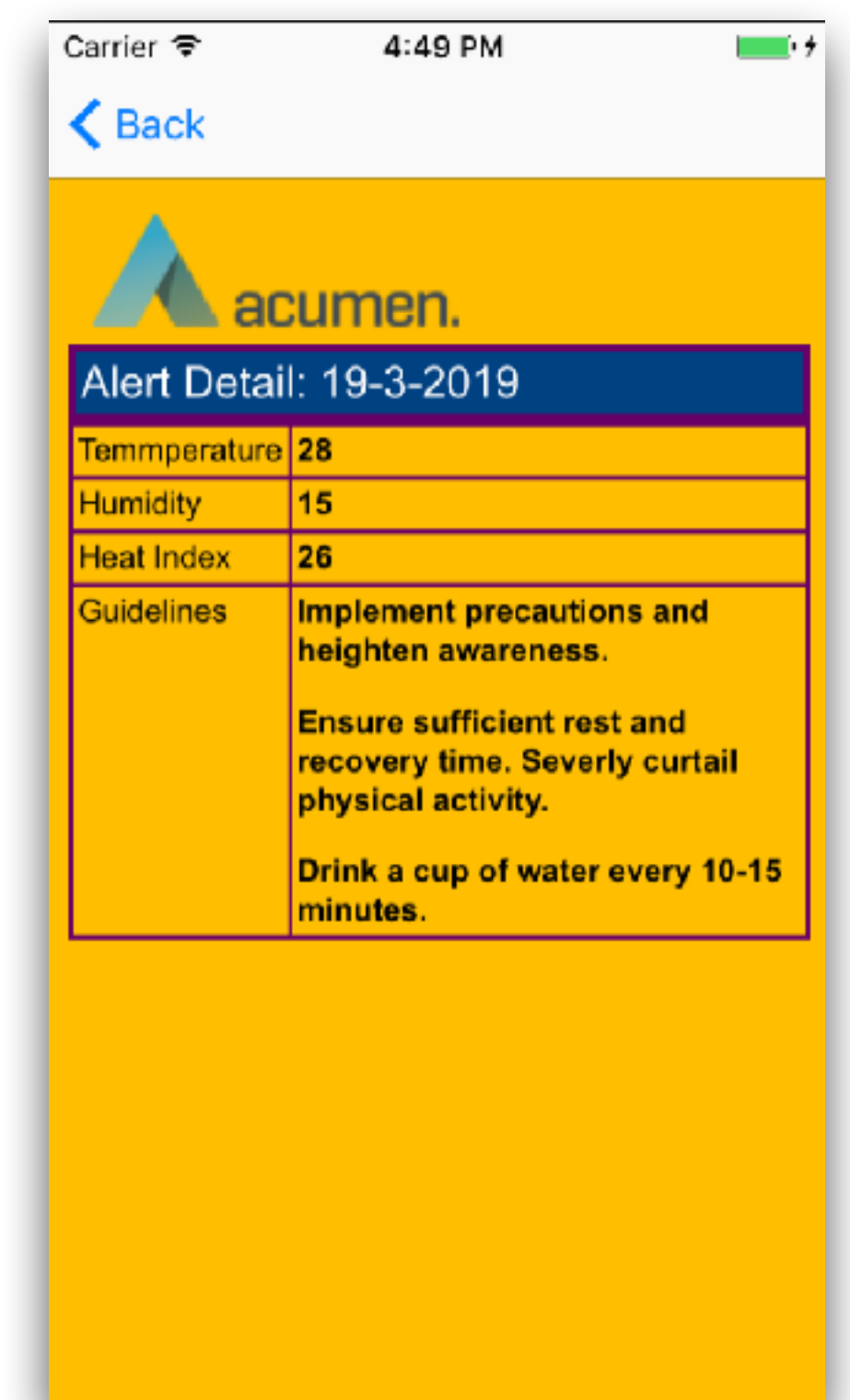
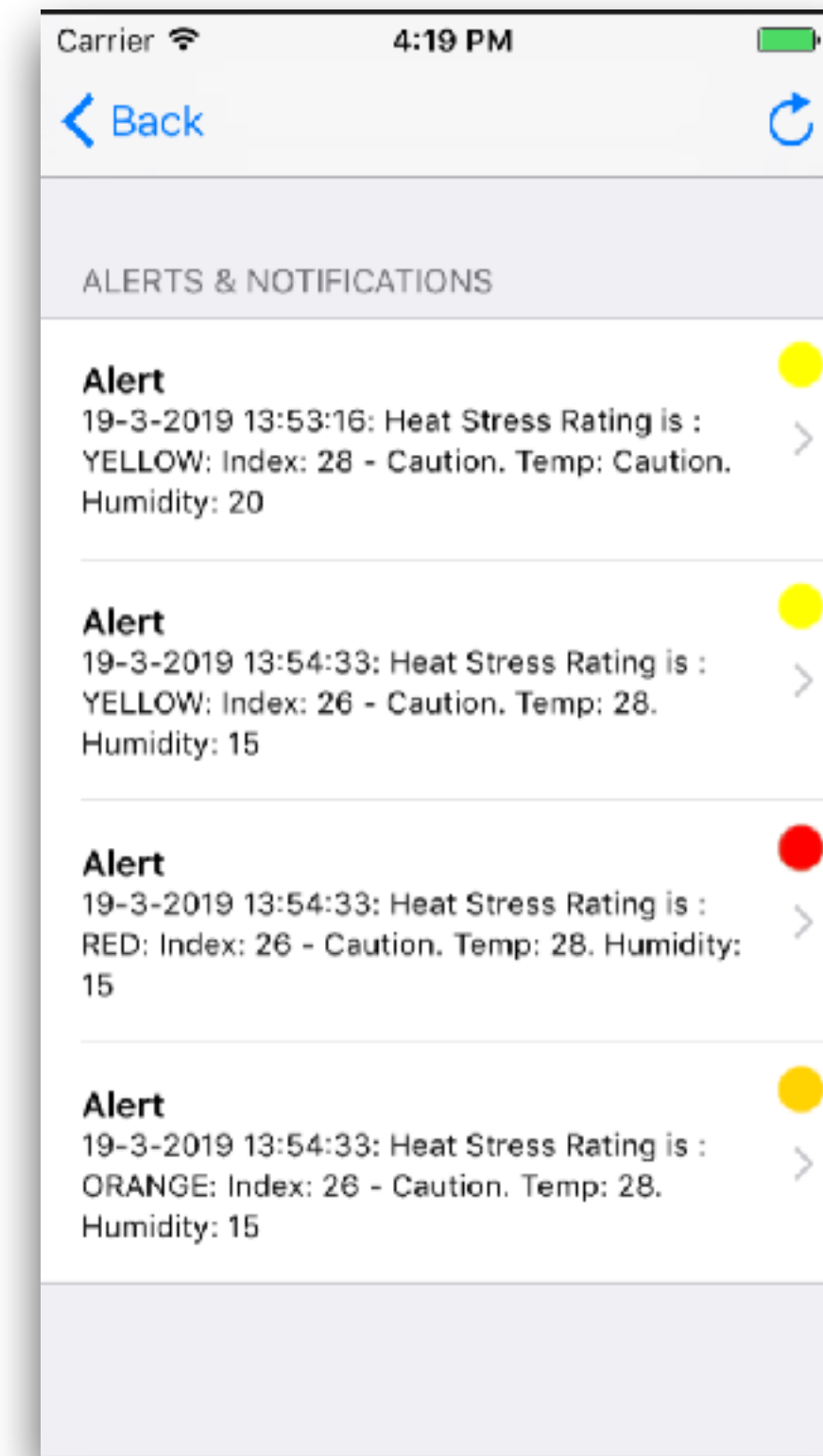
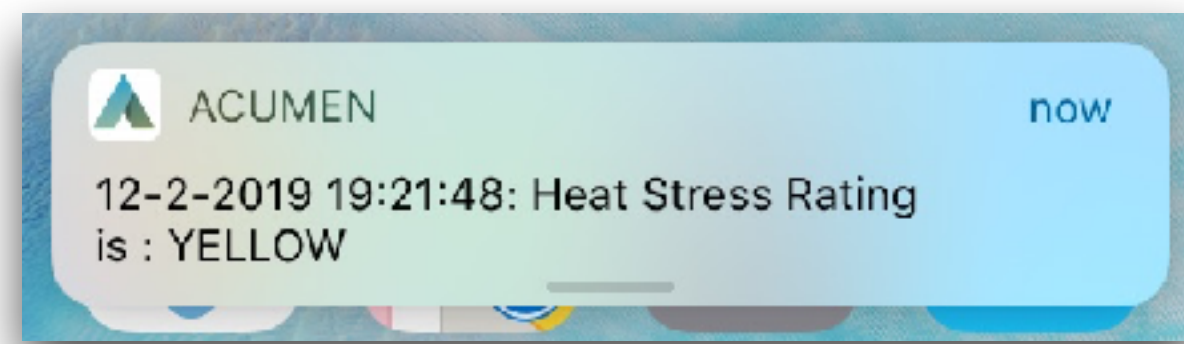
- Heat Stress & Weather can cause serious harm.
- Need a mix of formal & informal information.
- Information can evolve rapidly as conditions change
- Need to inform quickly and give direction / guidance
- Need to reach a potentially large group of people



- What is guidance OR directive
- What is the known true single source of information
- What technology?
- It must be usable and robust

Heat Stress & Weather Awareness - The Solution

- Technology available to ALL

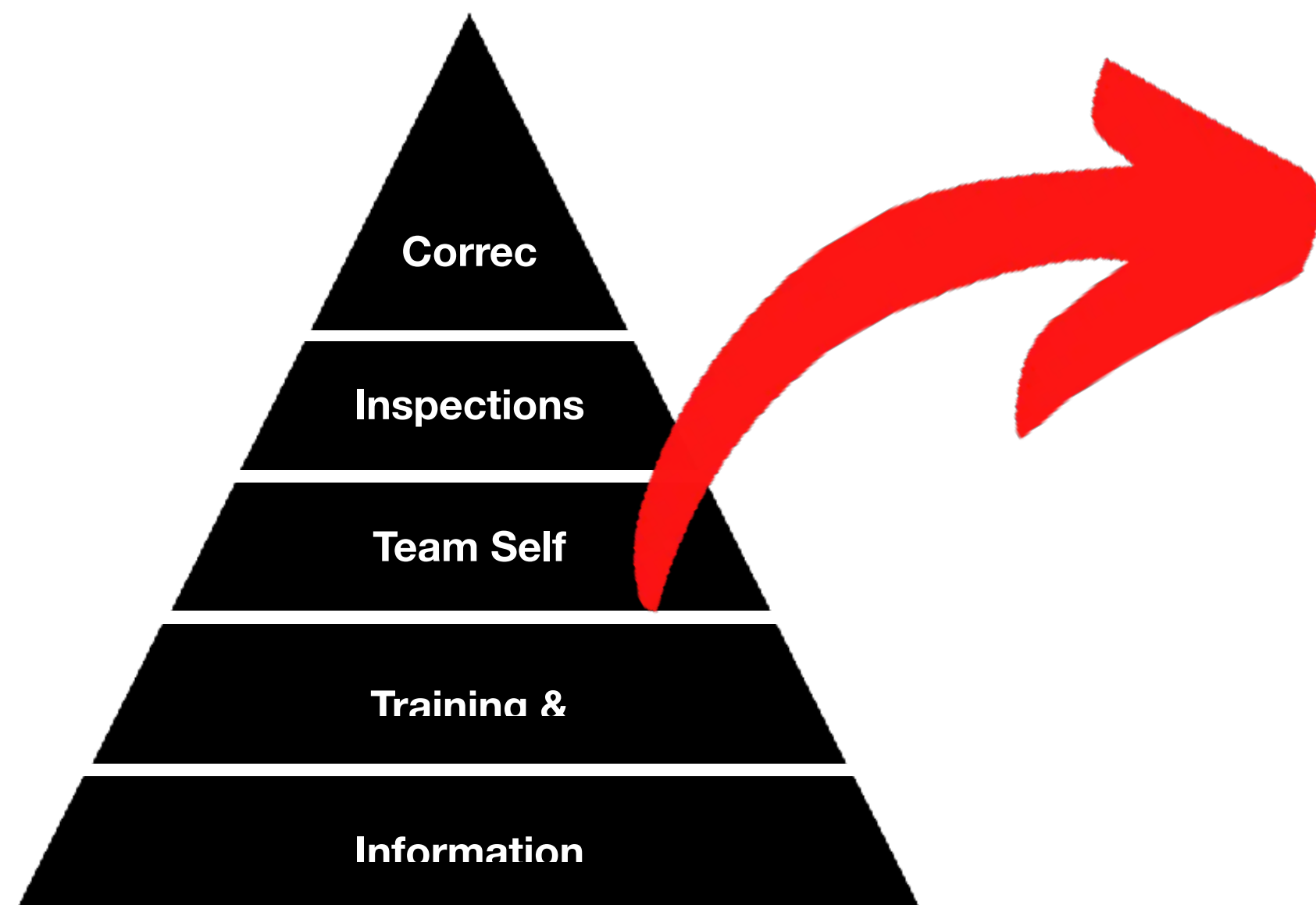


Part 3: Applying the Acumen Safety Model

Labour Welfare & Site Visibility

Visibility of Compliance to Labour & Welfare Laws

- Huge work force from local and overseas
- Fast moving construction and development across the region
- Strict labour and welfare laws in most countries
- Penalties for not complying to labour and welfare laws
- Government documentation is extensive and difficult to use



- Who is checking compliance
- Can we get real-time 'eyes' on issues
- Regulations are written as regulations & laws
- Labour & welfare requirements are widespread

Visibility of Compliance to Labour & Welfare Laws

