



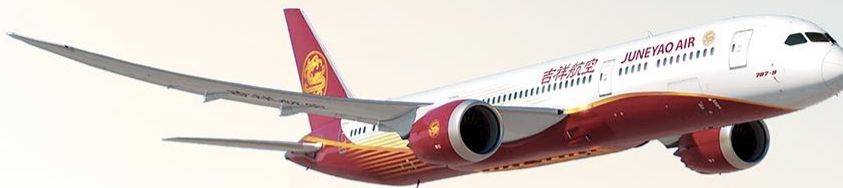
New Ways of Proactive Safety Management

——Quantifying Safety to Build Life Channel

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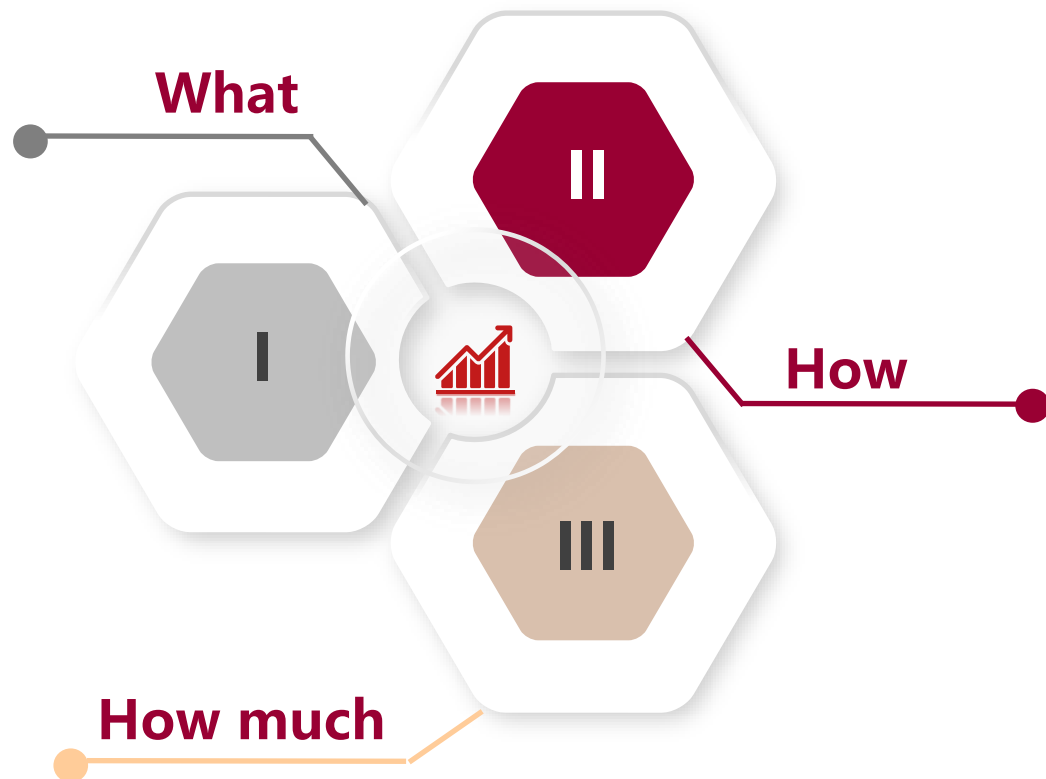
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- 一、 Why we need proactive safety management
- 二、 What is proactive safety management
- 三、 How to realize proactive safety management

Understanding of proactive safety management



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Unstable approach

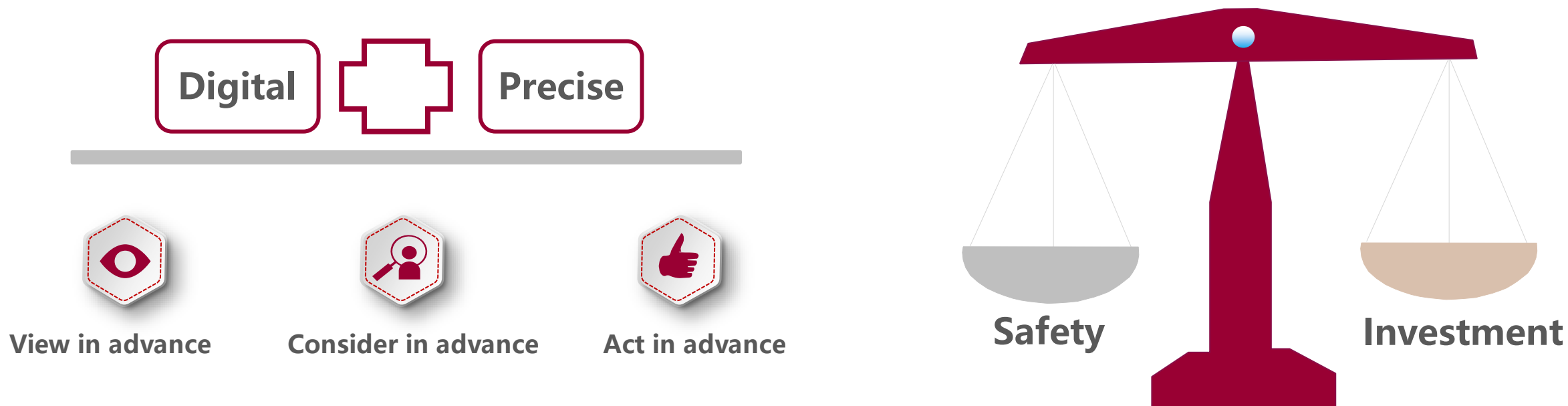


- ? simply require flight crew to set flaps
- ? decelerate in advance
- ? descend early

Understanding of proactive safety management



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- Proactive safety management doesn't equal to flight envelope. Taking safety management steps forward or backward depends on how much analysis and measures we take.



—、The realistic meaning of proactive safety management

一、The realistic meaning of proactive safety management



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Safety

- Safety is a status in which risks associated with personnel injury or property loss are reduced and controlled to an acceptable level by continuous risk management, instead of the absolute safety with no accidents or the corrective actions afterwards.

Proactive safety management

- The correct concept of proactive safety management should also reflect the right safety management visions, which are getting rid of the wrong idea of “safety equals to no accidents” and gradually changing from the working way of management afterwards to the thinking of nipping in the bud.

一、The realistic meaning of proactive safety management

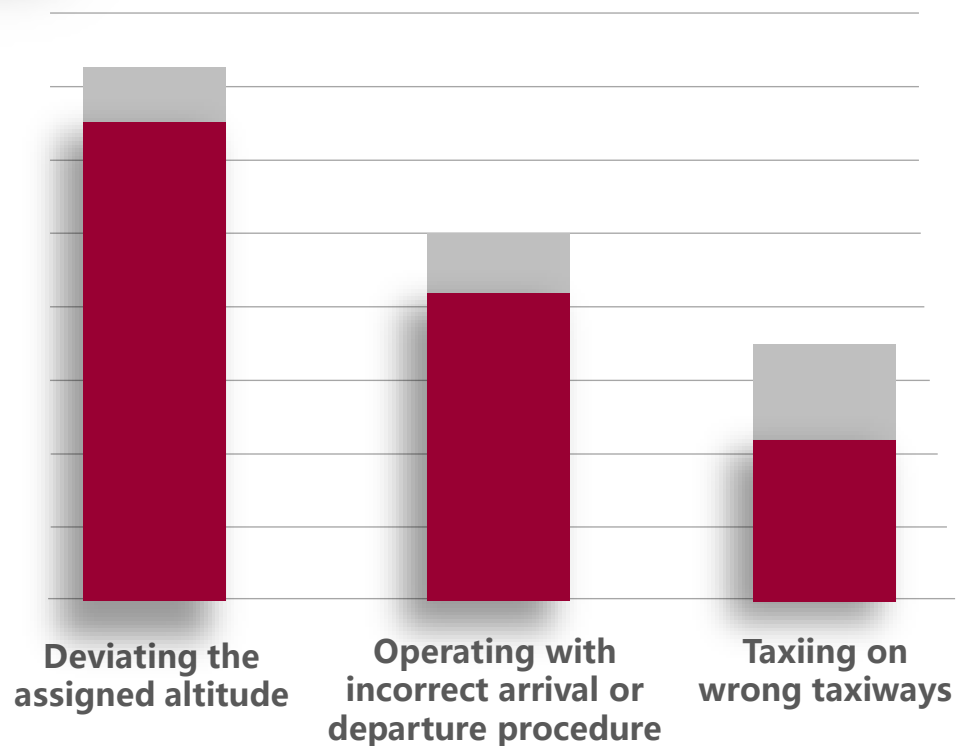


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1

Help to set up correct safety concept



Unfamiliar with airport maps



Not researching the detailed instructions



No prompt reminder

➤ Flight crew lack of the awareness of risk prevention and the concept of ensuring safety and proactive safety management.

一、The realistic meaning of proactive safety management

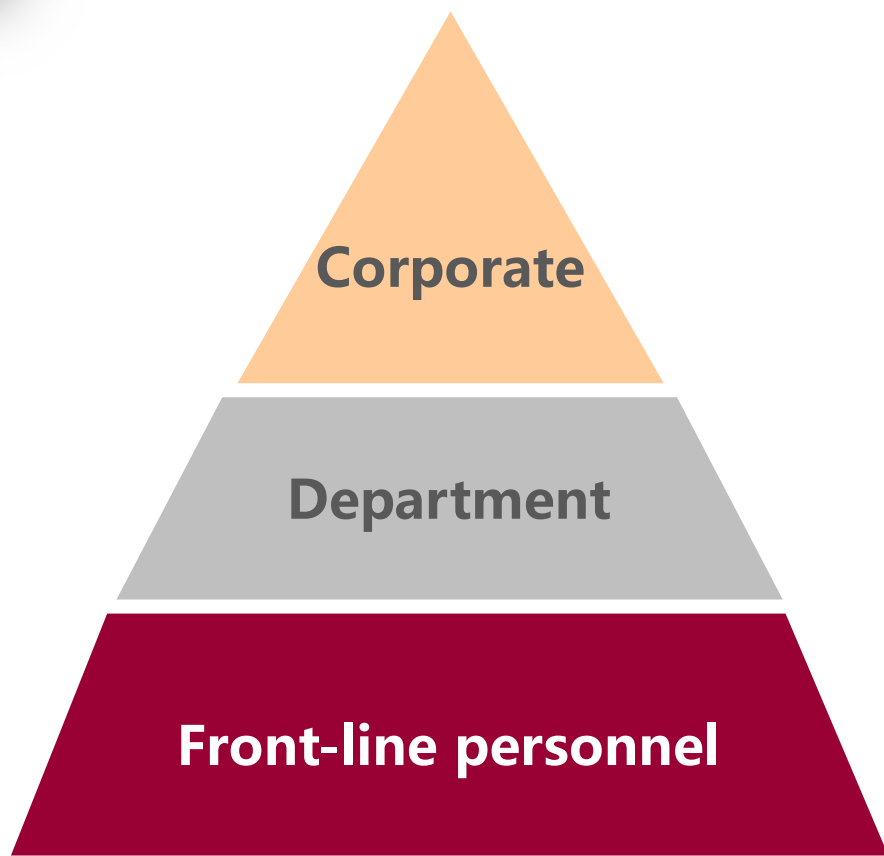


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2

Help to shift down the focus of safety work



- » Shifting down perspectives
- » Shifting down resources
- » Shifting down responsibilities

一、The realistic meaning of proactive safety management



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3

Help to realize zero tolerance to potential safety hazards

Zero tolerance to potential safety hazards

- Zero tolerance to potential safety hazards is not equal to zero tolerance to unsafe events, but to the behaviors of ignoring the hazards and not taking any actions.

Proactive safety management

- The focus of safety work should be on the examination and treatment of them before the occurrence of accidents, rather than on the remedial measures afterwards.





二、 Safety channel built by reasonable safety investment

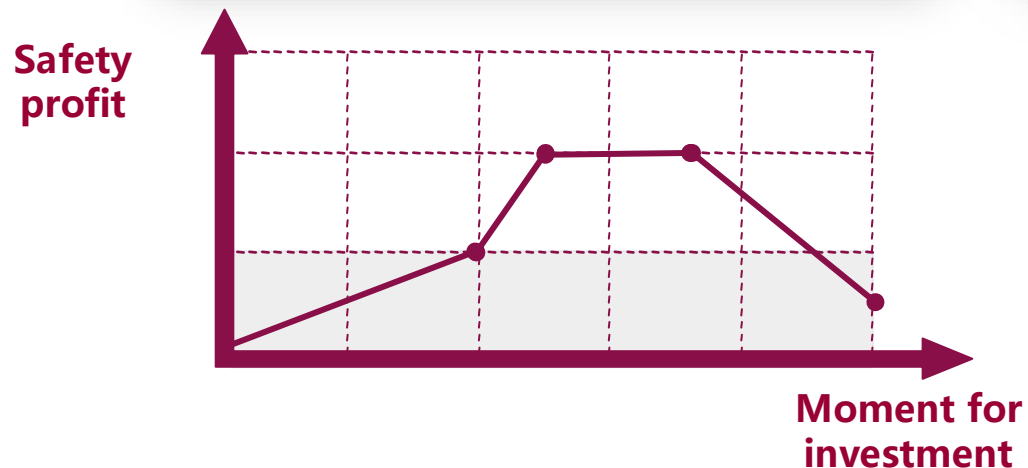
二、 Safety channel built by reasonable safety investment



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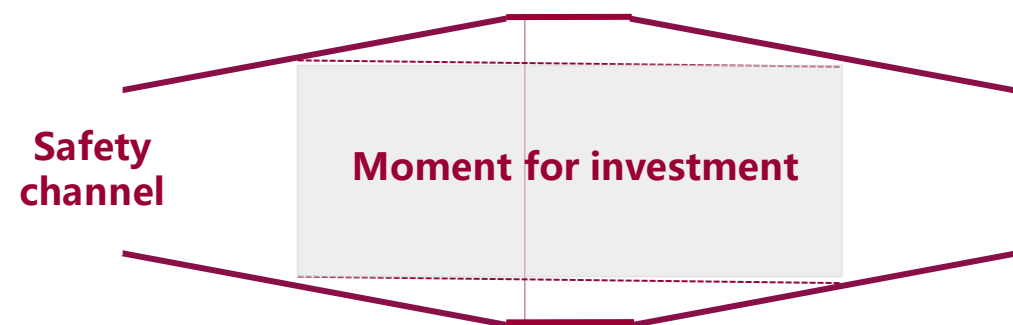
Choose the best moment for
safety investment



- For safety investment, it's a kind of waste if we invest too early and the profit by the investment can't be maximized if we miss the best moment. However, investing beyond the safety channel is just useless.

VS

Building the safety channel is
the precondition

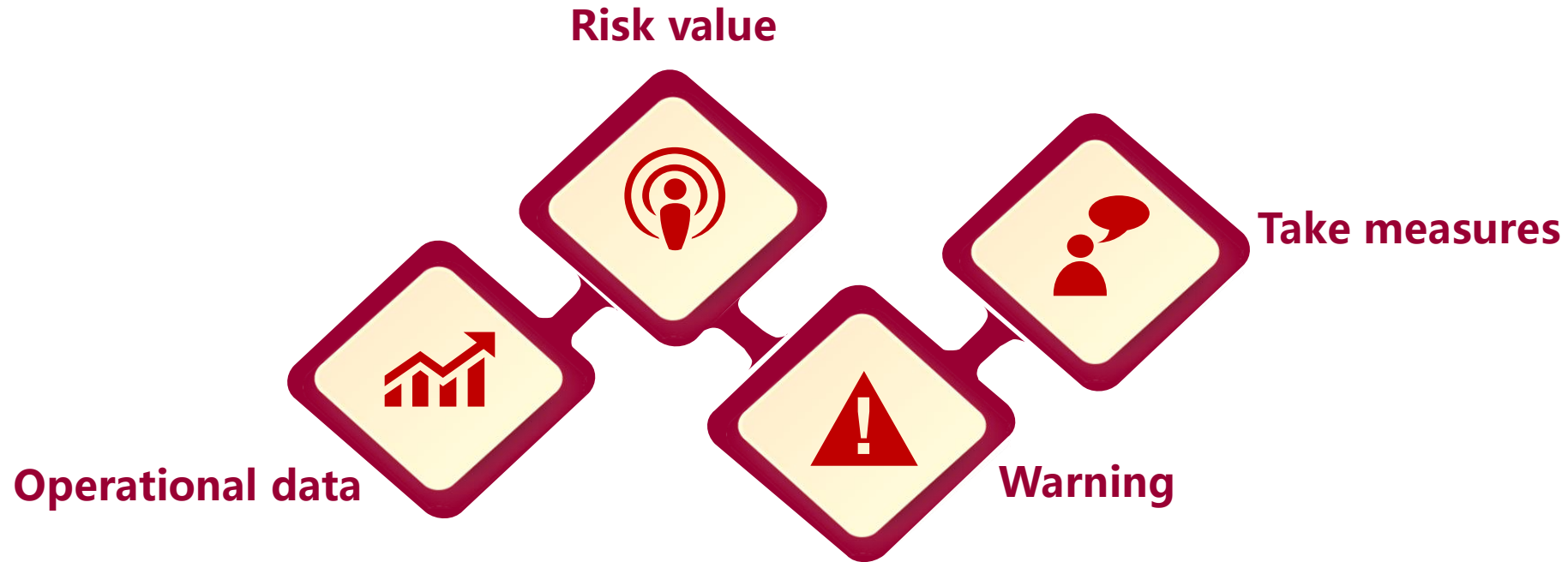


- Safety channel is the channel to make the safety status within certain margin, which is also called life channel. The safety channel is not only the profit balance channel between the investment and safety status, but also the life channel which ensures the risks controllable.

二、 Safety channel built by reasonable safety investment



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- The establishment of safety channel relies on SMS, the innovation and application and so on. The application of new technique just uses the digital methods to define safety channel and make sure that the life channel with acceptable risks is established by evaluation and pre-caution of risks.



三、 The effective ways of proactive safety management

三、The effective ways of proactive safety management



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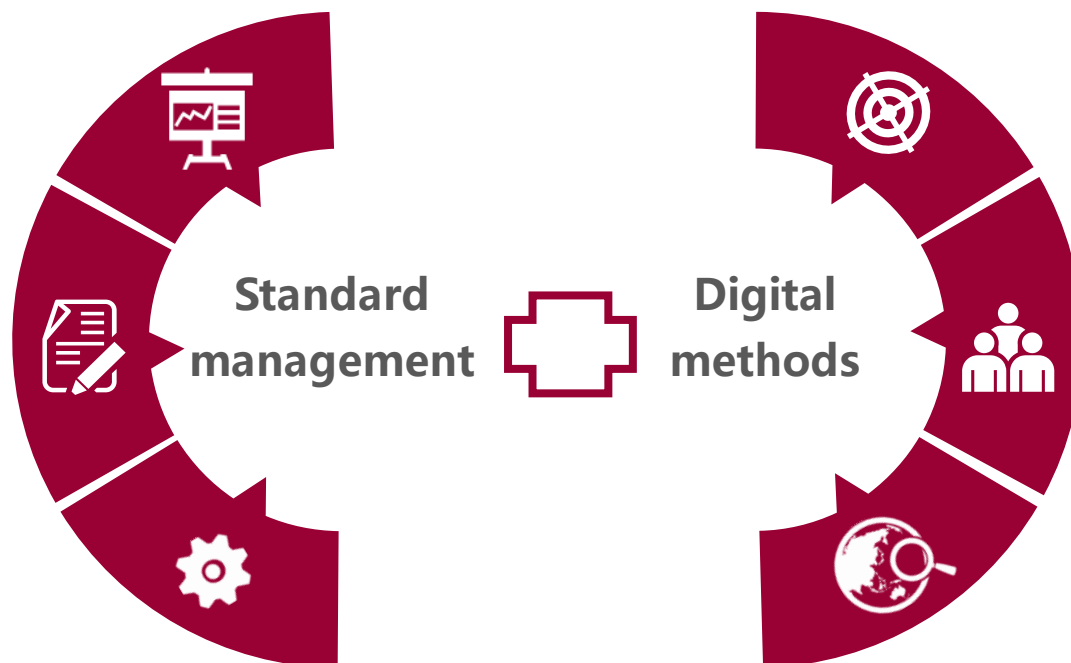


Mean the slogan

Prevention

Responsibility

Control



Concrete methods

Practicable

Profitable

Controllable

三、 The effective ways of proactive safety management

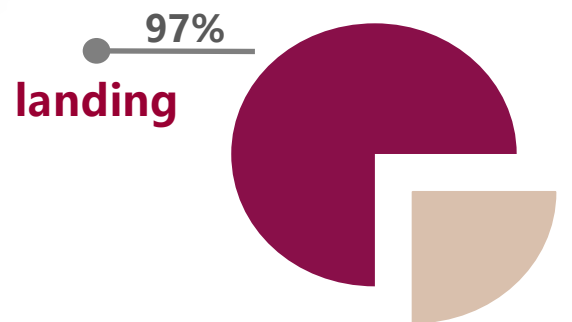


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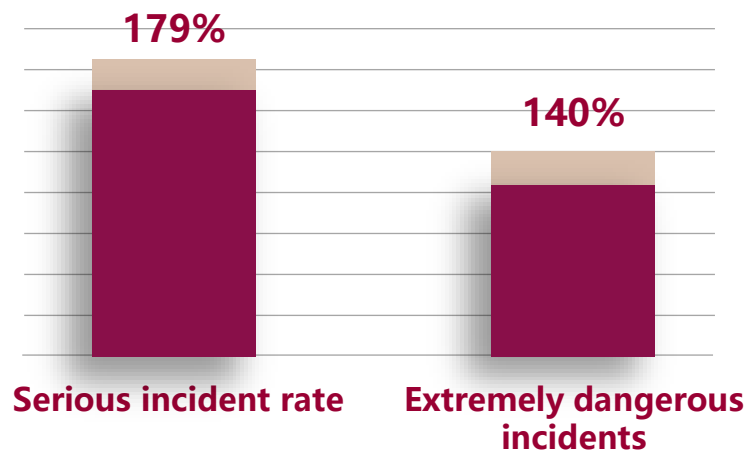
1

Establishing risk monitoring model by precise management



Unstable approach

"statistics show that landing of unstable approach doesn't have too many risks and consequences."



Unstable approach doesn't necessarily result in serious consequences, but must increase risks.



三、The effective ways of proactive safety management



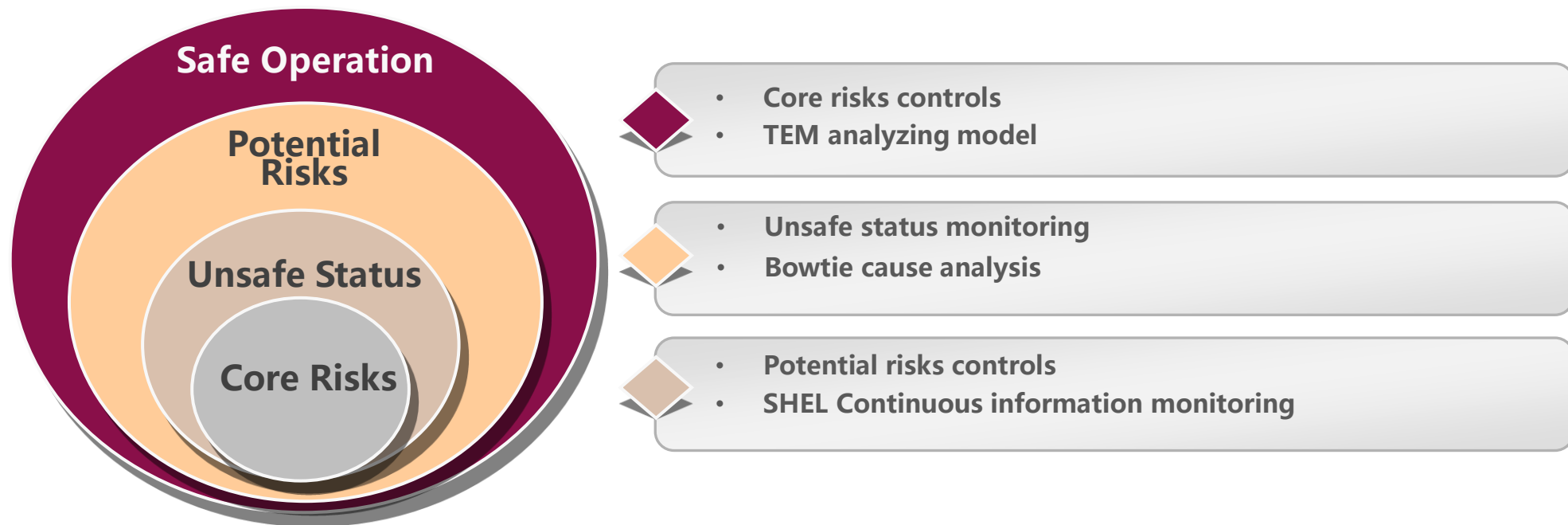
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1

Establishing risk monitoring model by precise management

Risk monitoring model



三、 The effective ways of proactive safety management



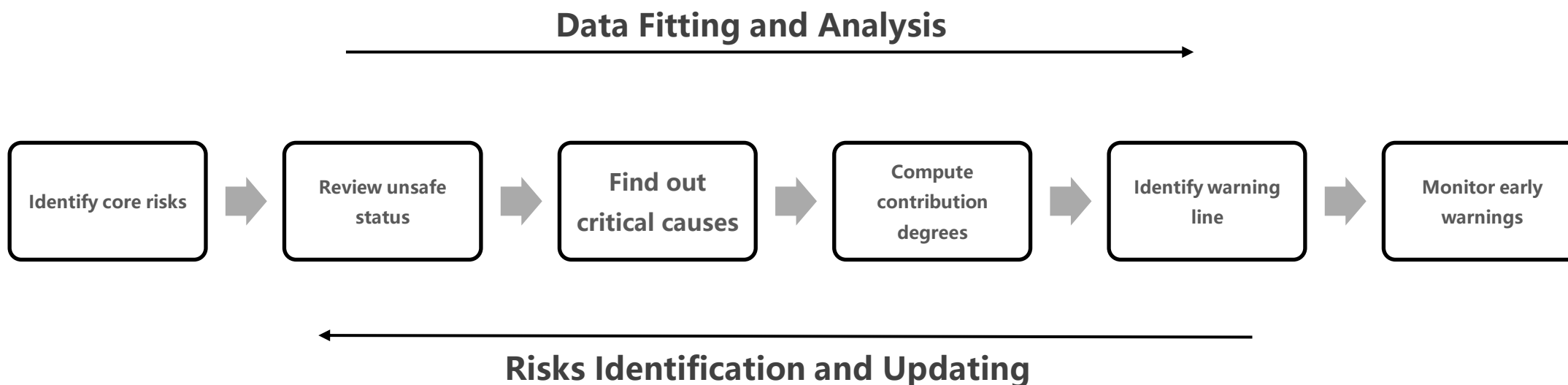
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1

Establishing risk monitoring model by precise management

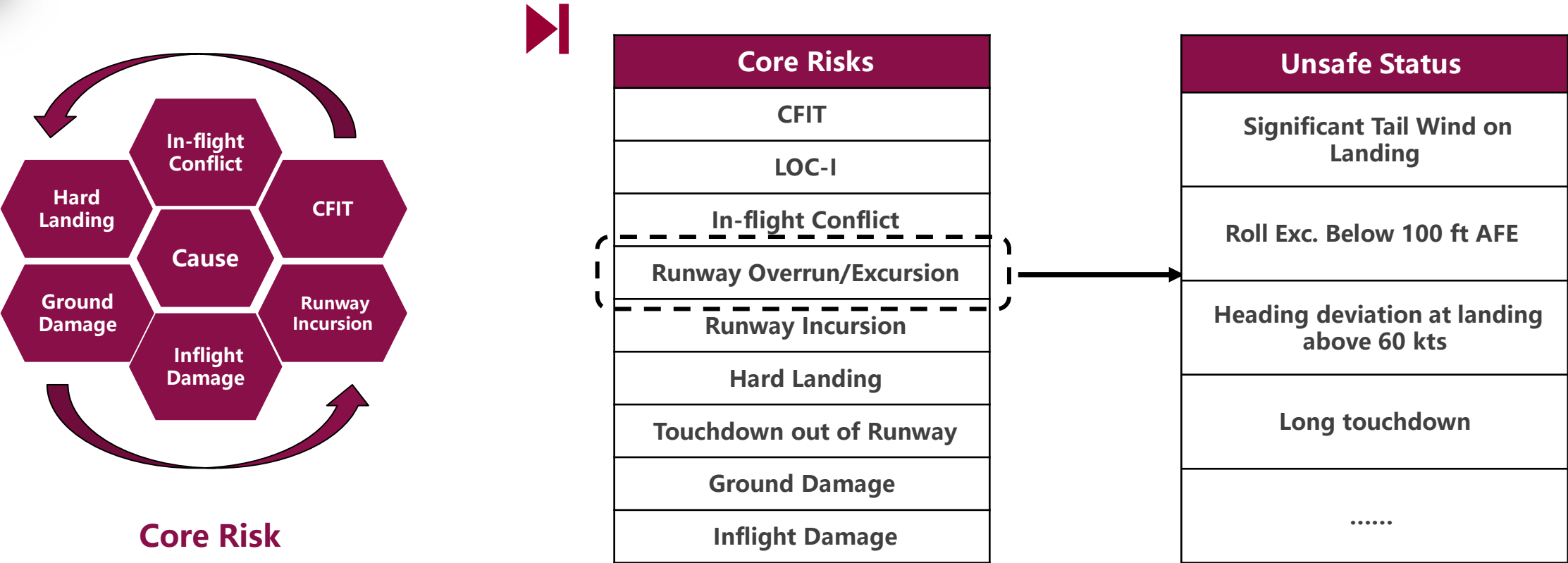
The establishment and application of the model



三、 The effective ways of proactive safety management

1

Establishing risk monitoring model by precise management



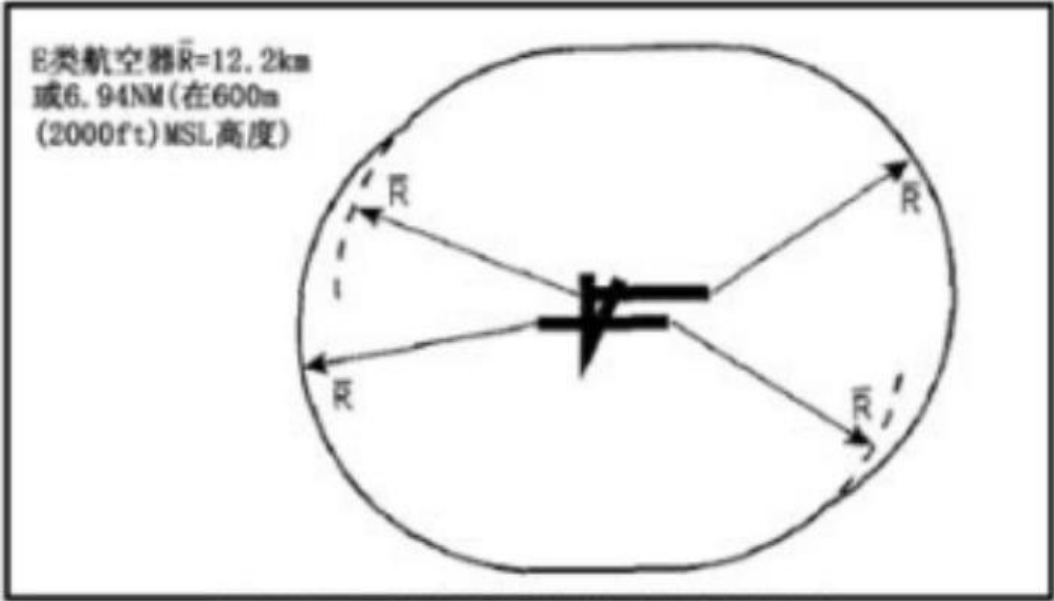
三、 The effective ways of proactive safety management

2

Identifying controllable safety channel by utilizing digital methods

The data of different aircrafts

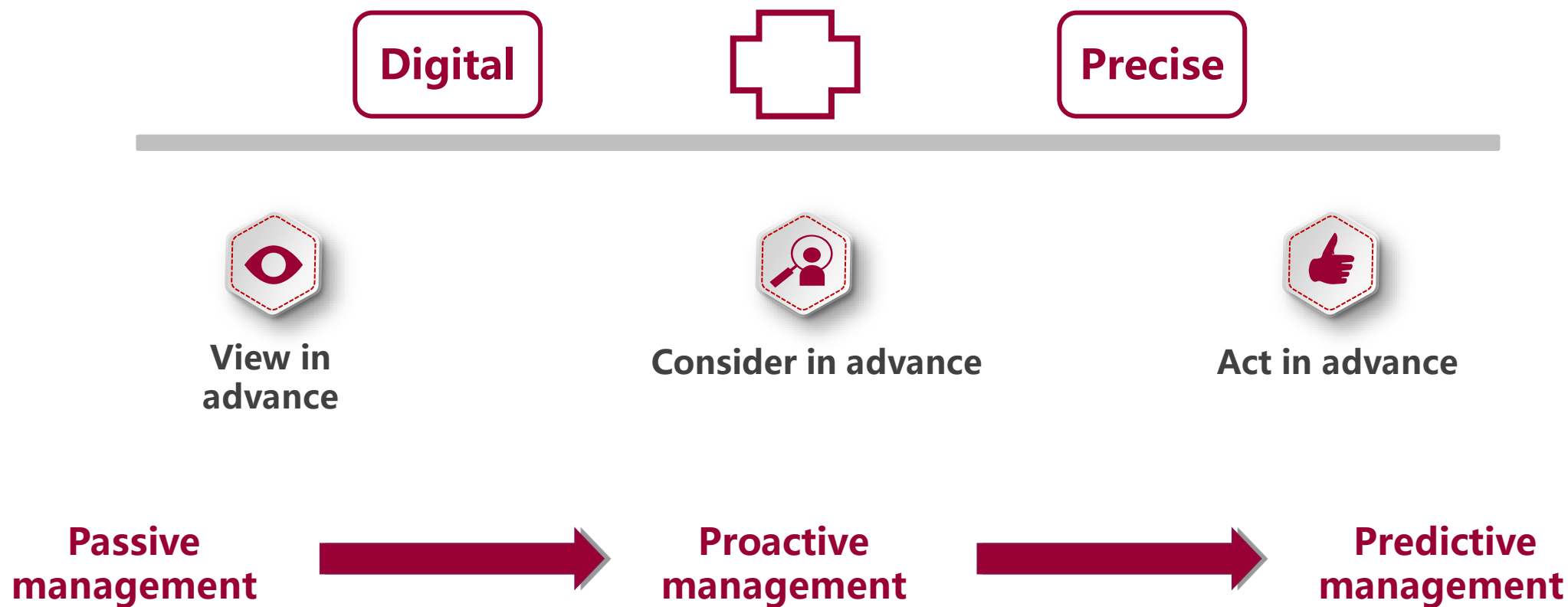
Aircrafts	A/100	B/135	C/180	D/205	E/240
TAS	121	169	215	242	270
radius of the visual maneuvering (circling) protective area					
Aircrafts	Excess barrier redundancy	the minimum limit of the airport elevation OCH		the lowest visibility	
A	90 (295)	120 (394)		1.9 (1.0)	
B	90 (295)	150 (492)		2.8 (1.5)	
C	120 (394)	180 (591)		3.7 (2.0)	
D	120 (394)	210 (689)		4.6 (2.5)	
E	150 (492)	240 (787)		6.5 (3.5)	



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谢谢!
THANK YOU!

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