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## INNOVFEST

#innovfest

# Inzet van VR en AR om vaardigheden te trainen in de zorg

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- Teamleader opleiding verpleegkunde
- Lablead SIM@rt simulation lab
- *No conflicts of interest to declare*
- *Board member of DSSH*





# Welke vaardigheden zijn trainbaar met AR/XR?

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## Welke vaardigheden zijn trainbaar met AR/XR?

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Niemand heeft nog gereageerd.

Houd vol! Er komen reacties binnen.

# What is simulation?



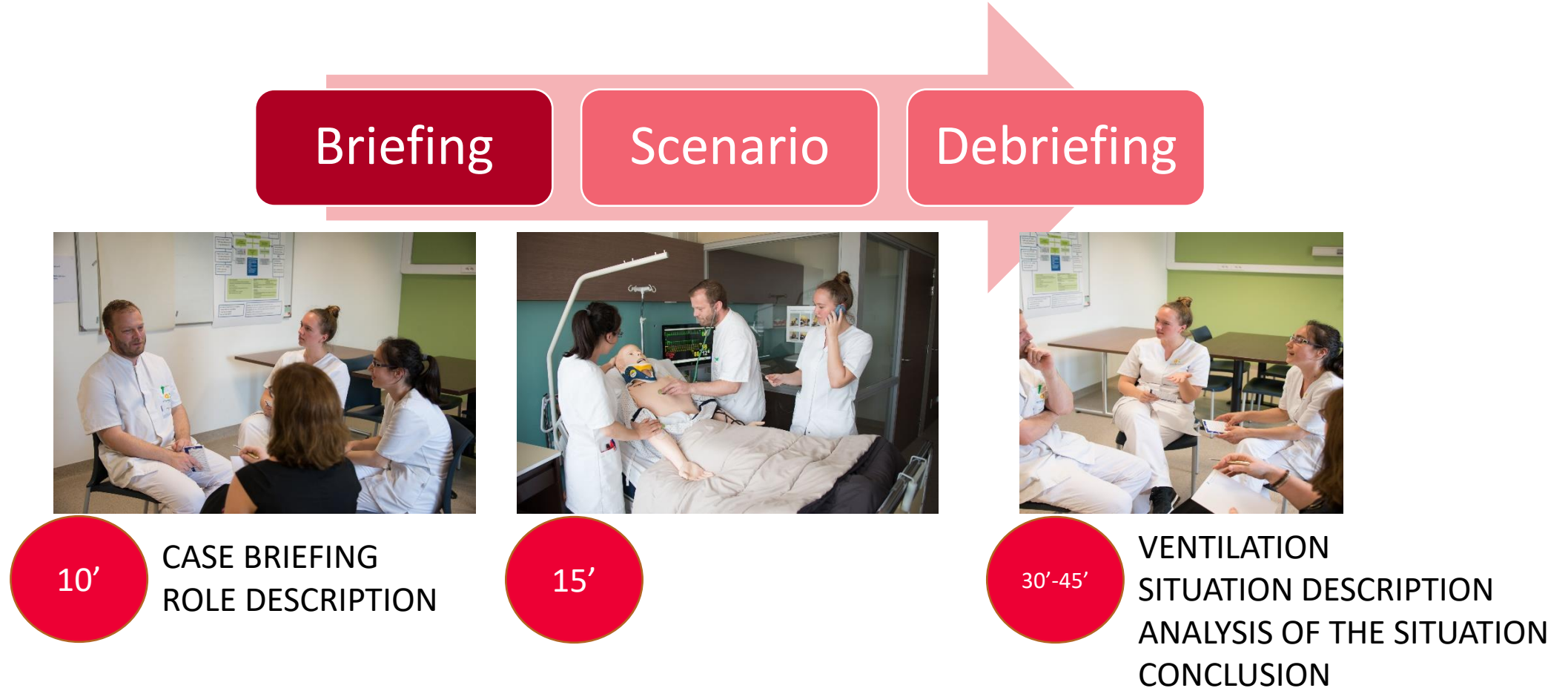
# 70% of mistakes care are caused by human error

1. Know the environment
2. Anticipate and plan
3. Call for help early
4. Exercise leadership and followership
5. Distribute the workload
6. Mobilise all available resources
7. Communicate effectively
8. Use all available information
9. Prevent and manage fixation errors
10. Cross (double) check

## 15 CRM Principles

11. Use cognitive aids
12. Re-evaluate repeatedly
13. Use good teamwork
14. Allocate attention wisely
15. Set priorities dynamically

# Simulation: Practical organisation







Applying the **right resources** in the **right place** in terms of **cost-effectiveness + ensuring quality**

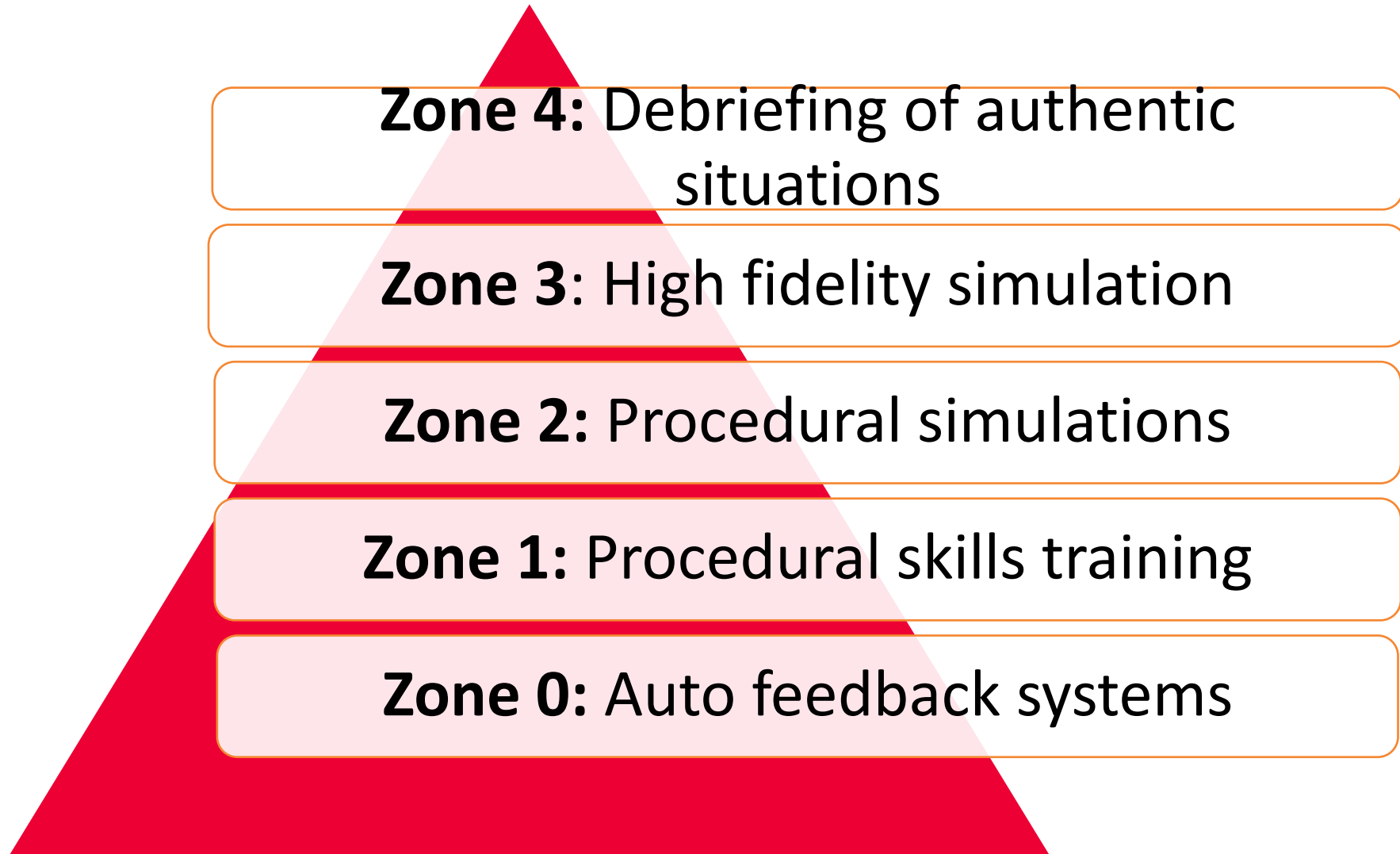
Build skills  
(Zone 0-1)

Apply skills to  
situations  
(zone 2)

Team and system  
development  
(zone 3)



# SimZones: a framework for embedding simulation in a curriculum



# ViCoSim

## Virtual Communication Simulator



# Collaborative Online International Learning

## Person-centered communication in an intercultural context using VR simulation in a blended learning environment

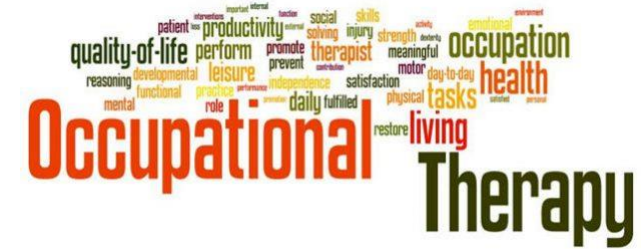
- Artevelde University college



Vera Beuselinck



Valerie Desmet



- Stellenbosh University



Juanita Bester



Maatje Kloppers





# Using shared VR as a means to cost-effectively encourage interdisciplinary collaboration.

- VR cave environment (immersive room)
- Interactive walls
- Zone 0 simulation
- No instructor needed
- Game of 30-45 minutes



# Effects of simulation based training

- Providing a comprehensive, well organized simulation training program is key to the **structural empowerment and clinical competency performance of nurses.**

*(Luna & Fern Behan, 2024)*

- The need for flexible continuing education of redeployed nurses is truly unprecedented. **Simulation provides an evidence based solution** that is **innovative, rapidly deployable** and does not jeopardise patient safety.

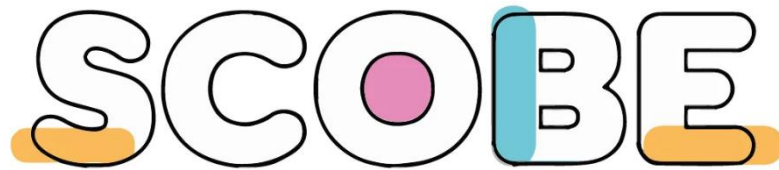
*(O'Rourke et al., 2021)*

- In situ simulation has been shown **by multiple studies** to be **effective and practical for maintaining the clinical competence of registered nurses.**

*(Hung et al., 2024)*

# Mogelijkheden met Augmented Reality (AR) op de werkvloer

- Ondersteuning van op afstand “shared expertise”
  - Coaching en upskilling van personeel
  - Optimaliseren van onboarding
  - Efficiëntiewinst
- 
- [www.scobe.be](http://www.scobe.be)



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