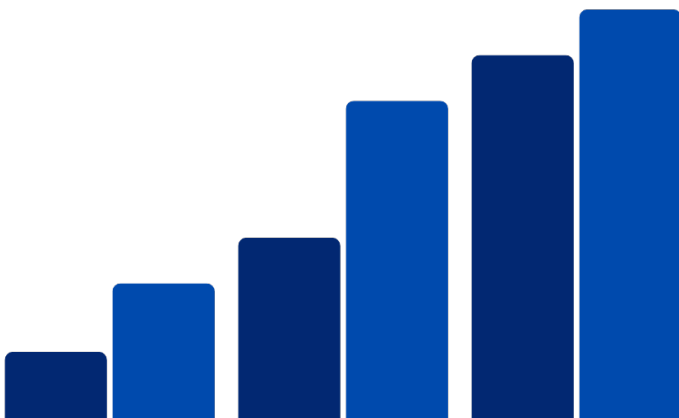


الجمعية المغربية للمحاكاة في علوم الصحة
Morocco Sim
Société Marocaine de Simulation en Sant
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Simulation translationnelle : de quoi parle-t-on ?

Brainstorming



Service des urgences Trauma Center Simulation de fonctionnement



Service des urgences Trauma Center Simulation de fonctionnement

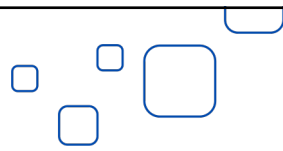


Service des urgences Trauma Center Simulation de fonctionnement



Service des urgences Trauma Center Simulation de fonctionnement

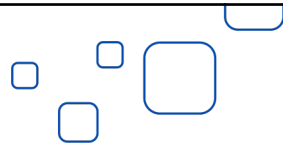




C'est quoi ?

Quand ?

Comment ?



C'est quoi ?





Traditional vs Translational

Définition

Simulation is a technique, not a technology, to replace or amplify real experiences with guided experiences that evoke or replicate substantial aspects of the real world in a fully interactive manner.






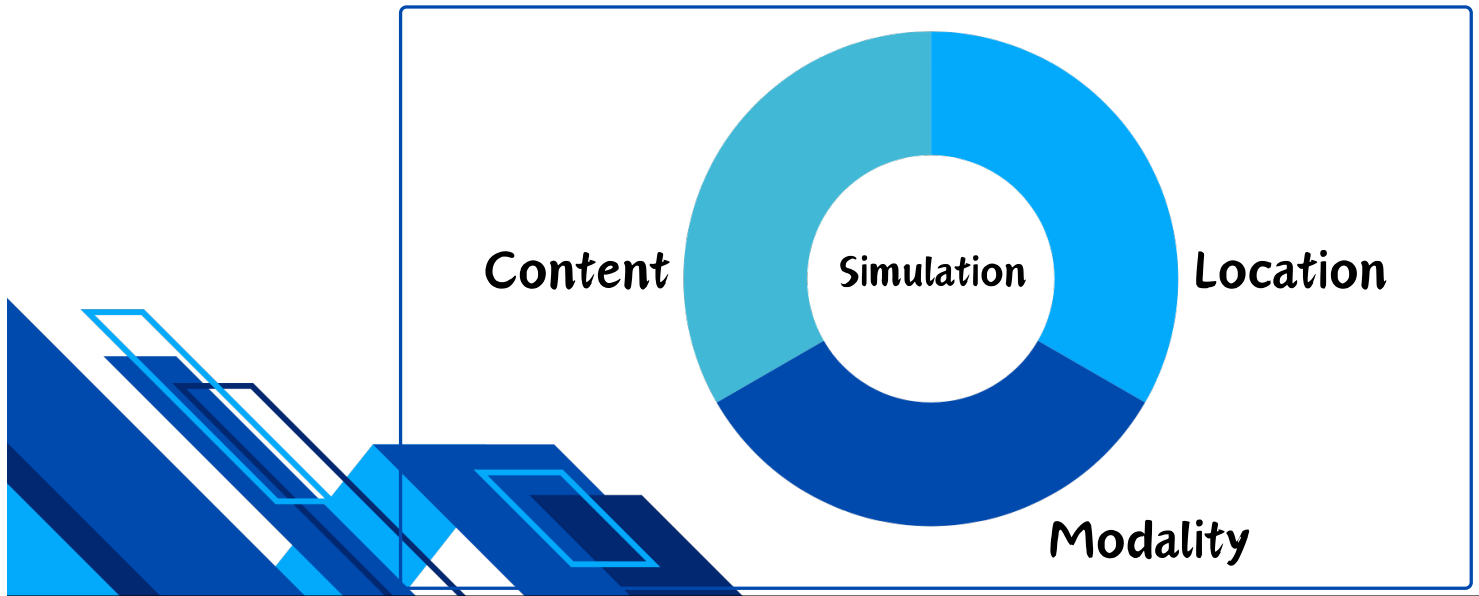
Traditional vs Translational

Définition

Translational simulation is a functional descriptor of traditional simulation whose purpose is to directly improve patient care and healthcare systems.



Traditional vs Translational



1

Translational simulation
From description to action

Peter Nickson Christopher and al.
Advances in simulation (2021)6:6



2



Comparison

Educational simulation

- Participants : individuals or teams
- Evaluate the participant(s)
- Identify and correct knowledge / skills
- Debrief explores participants' internal frame
- Adjust and try again

Translational simulation

- Participants : teams + environment
- Evaluate the space / process / equipment
- Understand and improve system
- Debrief explores influence of system on behaviour
- Adjust and try again

3



Paradigm

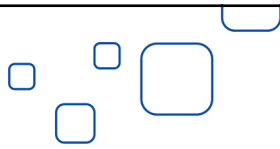
Education

- Human behaviour is driven by knowledge, skills, attitudes
- Goal : facilitate learning
- Better >>> better performance

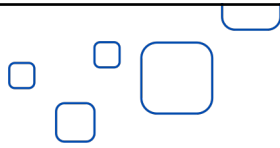
Patient safety

- Human behaviours is influenced by context
- Goal : create a resilient system
- Better system >>> stop errors before harm

4



Quand ?



Focus



**Outcomes/
Performance**



**Design spaces/
Processes**



**Culture/
Relationships**





**Outcomes/
Performance**

- **Cardiac arrest survival**
- **Door-to-needle times**
- **Time to blood transfusion**
- **Time to CT**
- **Teamwork / task completion**
- **QI bundles**



**Design spaces/
Processes**

- **Latent safety threats**
- **Readiness for opening**
- **ECPR teams & guidelines**
- **Clinical systems testing**
- **Design thinking-informed simulation**
- **Pandemic preparedness**



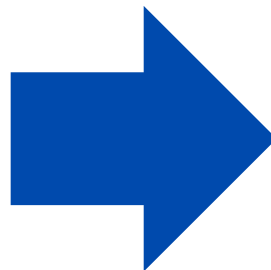


**Culture /
Relationships**

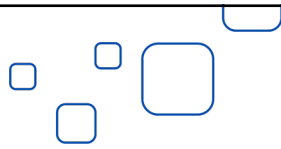
- **Shared goals**
- **Knowledge**
- **Communication**
- **Mutual respect**
- **Psychological safety**

Translational simulation

**Diagnostic /
Intervention**



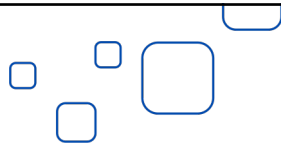
**Improve
healthcare / System**



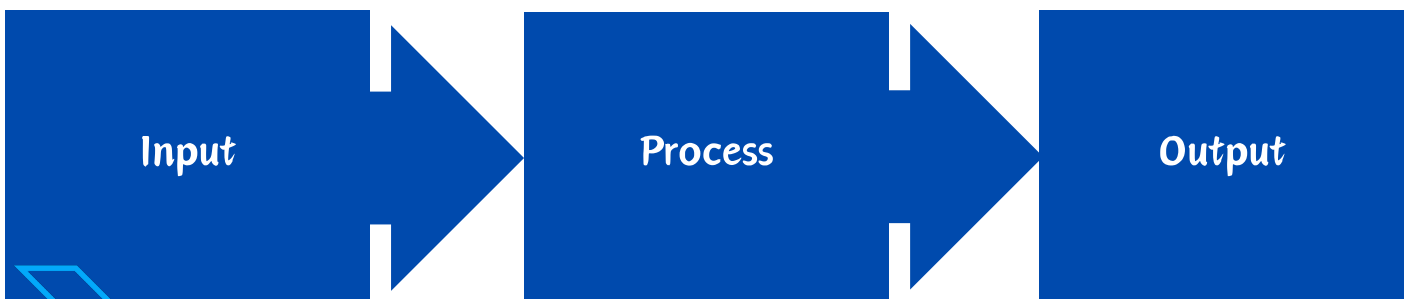
Comment ?



1



Operational framework : IPO model



2

Guiding principles

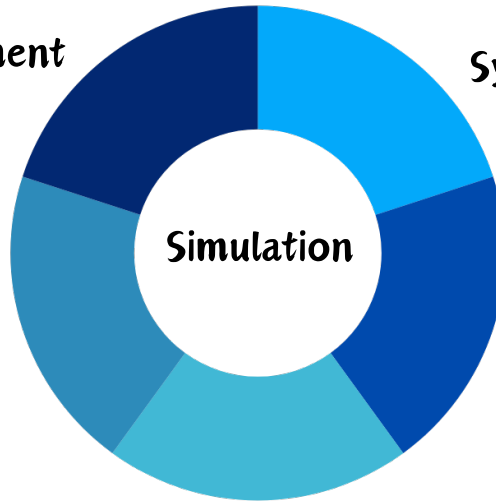
Functional task alignment

Systems approach

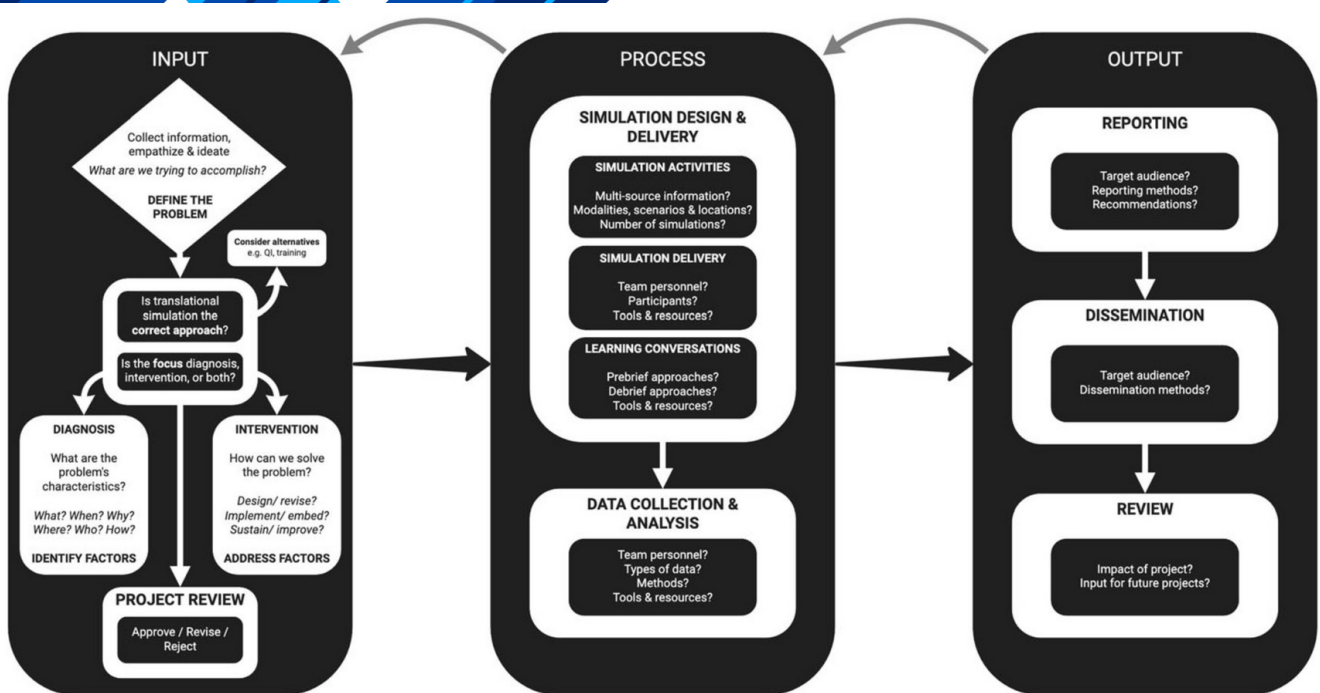
Disciplined focus

Stakeholder involvement

Strategy not an event



3



4

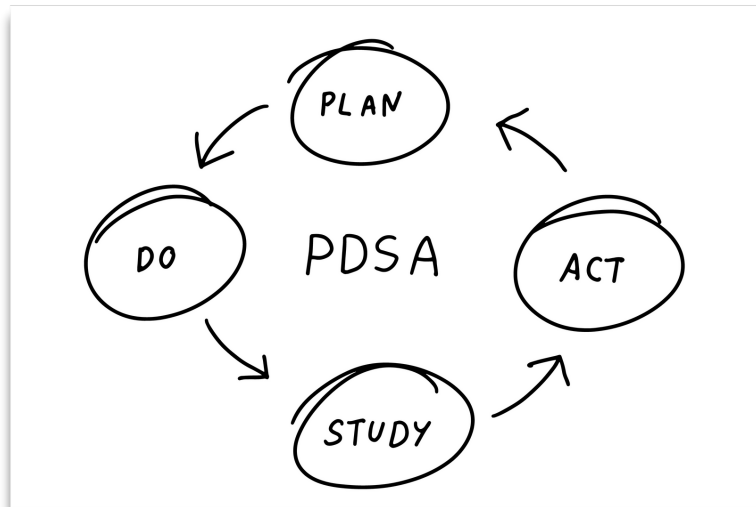
Input

Define the problem



Project review

Input



Input

Define the problem

Project review

Is this the appropriate approach ?
& Which focus ?

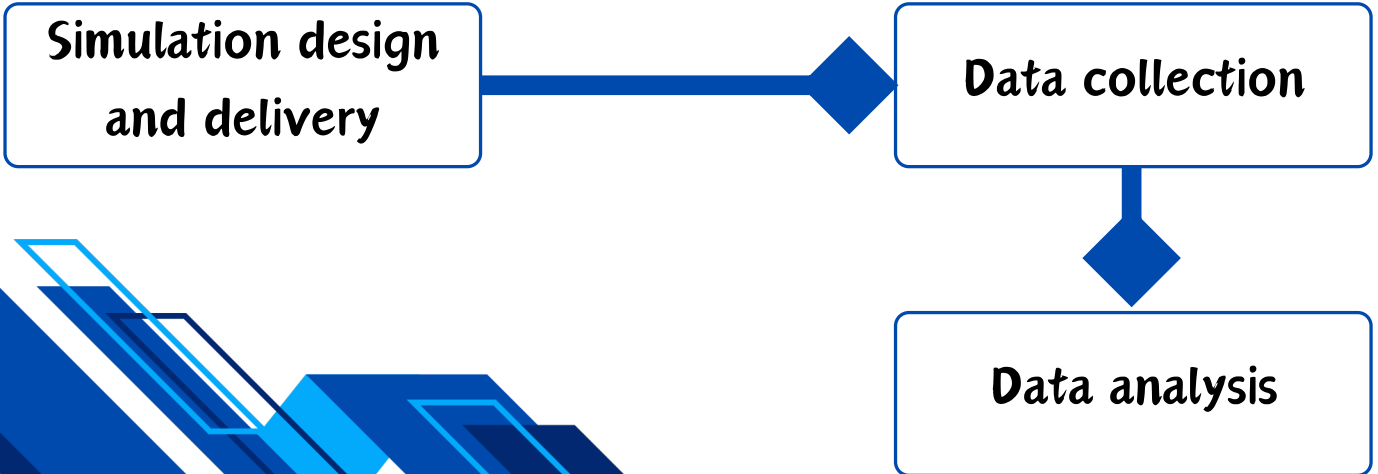
Input

Define the problem

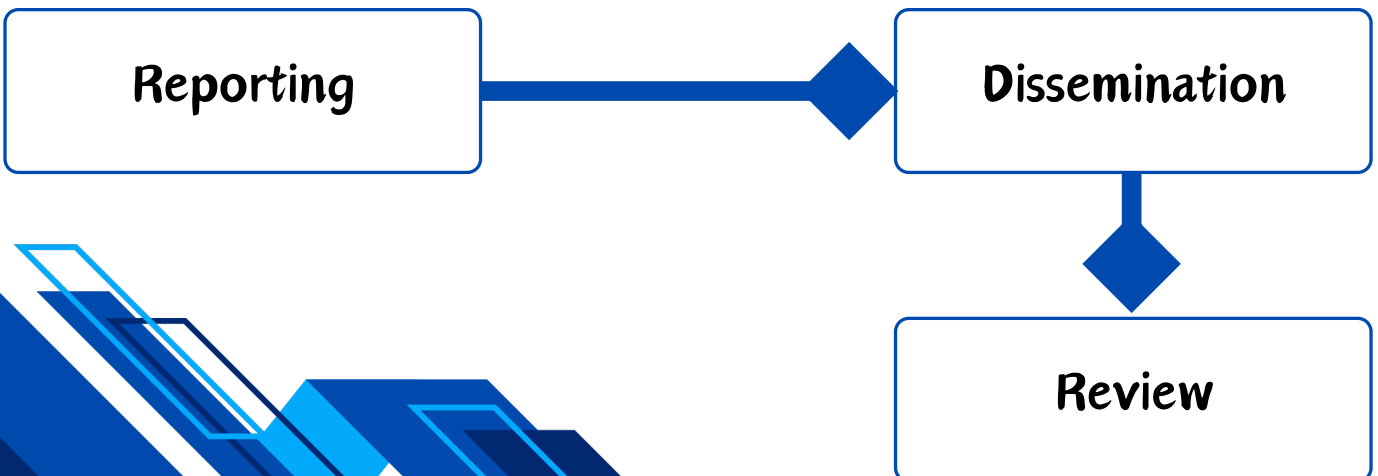
Project review

PDSA to be continued
Worth the cost ?
Unintended consequences ?
Resources and time available ?

Process



Output





Future directions


- **Demonstrating return on investment**
- **Connecting translational simulation, quality, and human factors**
- **Building capacity for translational simulation within health services**



1



Conclusion



Translation simulation can improve patient care & healthcare systems... but there is much to learn !

2