

# A Sustainable and Reliable Approach – Faculty Development in the World of Simulation Jean Ker, Andrea Baker, Michael Moneypenny, Lynn Hardie, Neil Harrison, Jerry Morse, Catherine Paton

## Introduction

Simulation based education (SBE) is a recognised effective method of preparing the workforce without compromising the service<sup>1</sup>.

# The Challenge

In remote and rural NHS Scotland the availability of specialist faculty to deliver a sustainable system of quality SBE at the front line is limited.









The CSMEN Mobile Skills Unit above (MSU) provides simulation facilities and specialist equipment

### Methods

The national Clinical Skills Managed Educational Network (CSMEN) is responsible for the provision of simulation based education.

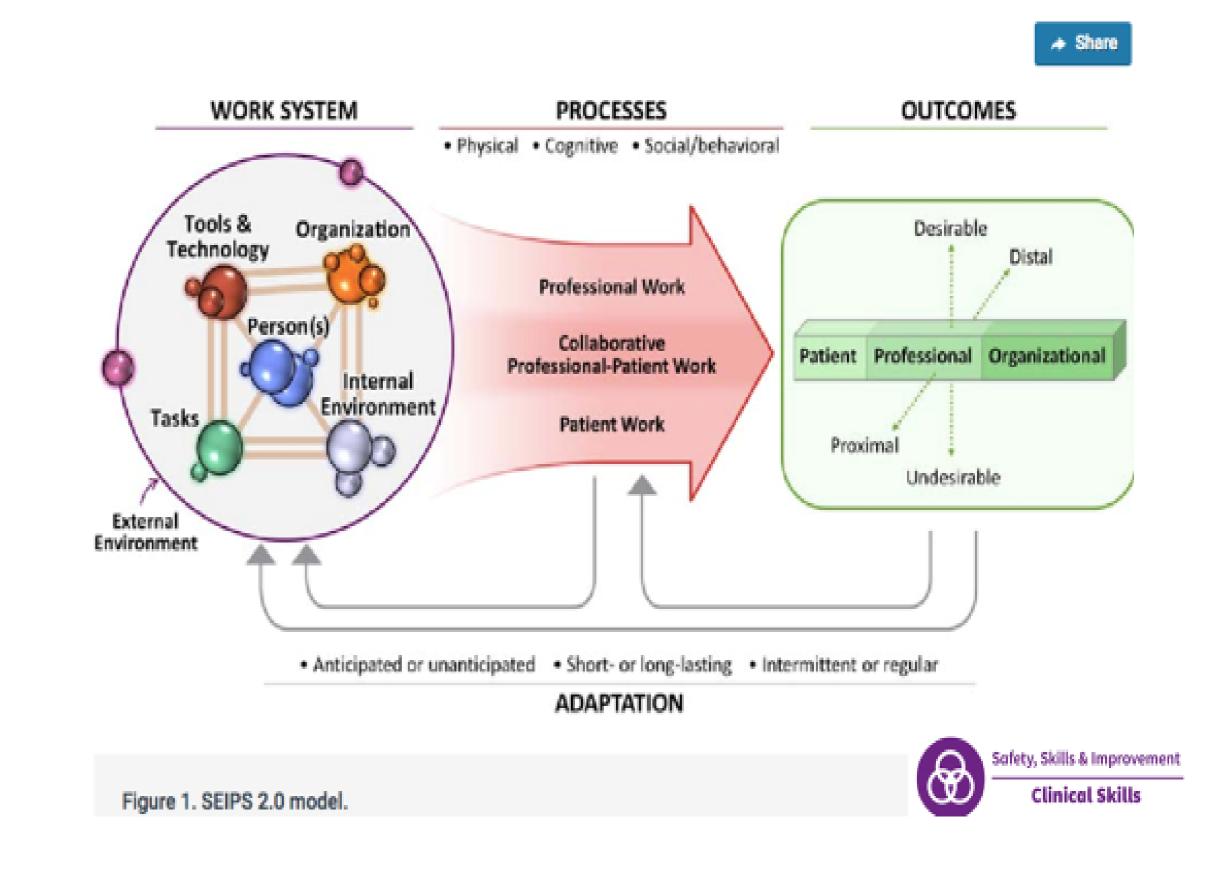
A Human Factors Science approach- Systems Engineering Initiative for Patient Safety(SEIPS) 2.0 was implemented to enhance sustainability in faculty development for SBE.<sup>2</sup>

In relation to the 'work system' in Figure 1 CSMEN organised (O):

- A <u>high level outcomes framework for SBE faculty</u> (T) developed by stakeholders
- The national faculty <u>SBE development course</u> for the MSU(IE)
- Faculty recruitment from remote and rural Scotland (P)
- The development of an online faculty learning resource using the national outcomes SBE framework (TT)
- MSU collaborative events bringing together users including other organisations (EE)



SEIPS 2.0 Human Factors Framework for enhanced Reliability in the System



# **Outcomes:**

- 1. National Tier 1 and 2 online faculty course
- 2. National bank of over 250 SBE faculty
- 3. Average number MSU visits annually: 27
- 4. Train approximately 1000 HCPs per year
- 5. MSU Cost-effective
- 6. 'Flying faculty' to help sustainability

# **Key Lessons Learned:**

- Human factors science useful to analyse influencers of sustainability
- Achieving a balance between national standards and local ownership requires stakeholder involvement
- Protected time for faculty hosting the MSU is crucial for sustainability
- 1. Motola I, Devine LA, Chung SC, Sullivan JE, Issenberg BS Simulation in Healthcare education a best evidence practical guide- AMEE No 82 Medical Teacher (2013) 35: e1511-e1530
- 2. Holden R, Carayon P, Gurses AP, Hoonakker P., HUNDT AS, Ozok AA Rivera-Rodriguez AJ, SEIPS 2.0 A human factors framework for studying and improving the work of health care professionals and patients Ergonomics (2013) 56(11) 1669-1686