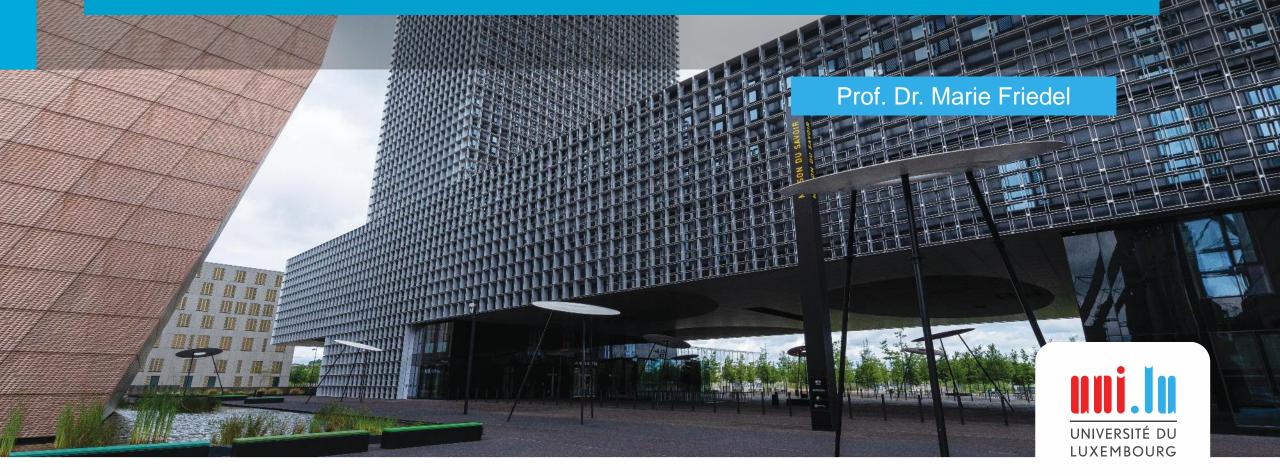
Sustainability Lunch Talks Econursing, an innovative approach to promote health at 360°



Co-Director of Programs in Nursing Science: Prof. Dr. Laurence Bernard



I, hereby declare, that I have no potential conflicts of interest to report. PLAN

- 1.Implementation of new Bachelors in Nursing Science
- 2.Urgent need to promote environmental health

 3.Presentation of the new course Econursing







1.Implementation of new Bachelors in Nursing Science at the University of Luxembourg

Urgent need to invest in health care education







ORIGINAL RESEARCH

OPEN ACCESS

To cite: Aiken LH, Sloane D,

2017:26:559-568.

Griffiths P, et al. BMJ Qual Saf

Nursing skill mix in European hospitals: cross-sectional study of the association with mortality, patient ratings, and quality of care

Linda H Aiken,¹ Douglas Sloane,¹ Peter Griffiths,² Anne Marie Rafferty,³ Luk Bruyneel,⁴ Matthew McHugh,¹ Claudia B Maier,⁵ Teresa Moreno-Casbas,⁶ Jane E Ball,² Dietmar Ausserhofer,⁷ Walter Sermeus⁴, For the RN4CAST Consortium



International Journal of Nursing Studies Volume 147, November 2023, 104601



Costs and cost-effectiveness of improved nurse staffing levels and skill mix in acute hospitals: A systematic review



INTENS CRIT CARE NUR 81 (2024) 103596



Research Article

Unfinished nursing care in intensive care units and the mediating role of the association between nurse working environment, and quality of care and nurses' wellbeing

Arnaud Bruyneel^{a,1,*}, Nicolas Bouckaert^{b,1}, Magali Pirson^a, Walter Sermeus^c, Koen Van den Heede^{b,c}

* Health Economics, Hospital Management and Nursing Research Dept, School of Public Health, Université Libre de Bruxelles, Belgium

^b Belgian Health Care Knowledge Centre (KCE), Brussels, Belgium

^c KU Leuven Institute for Healthcare Policy, Leuven, Belgium



Attractivity and retention



- 1. Academic career opportunitie
- 2. Professional autonomy
- 3. Recognition and support
- 4. Work conditions
- 5. Equitable salary
- 6. Work-Life balance

Kroczek, M., Späth, J. The attractiveness of jobs in the German care sector: results of a factorial survey. Eur J Health Econ 23, 1547–1562 (2022). <u>https://doi.org/10.1007/s10198-022-01443-z</u>

Workplace policies must address the issues known to impact nurse retention in practice settings; this includes the support required for nurse-led models of care and advanced practice roles.





Nursing shortage amplified by the pandemic 6 millions nurses (WHO, 2020) 23-27 millions nurses and midwives (Lancet 2022)





Au Brésil, ravagé par le Covid, des infirmières inventent une nouvelle «Main de Dieu» | Slate.fr

Econursing Marie Friedel 6th December 2023

And in Luxembourg?



Etat des lieux des professions médicales et des professions de santé au Luxembourg

70% cross-border nurses



LAIR REPORT IN 2019

Synthèse du Rapport Final

Version 2019-10-01

Santé et Prospectives Siège social : 87 Schmiedenacht, L-4993 Sanem, G.D. de Luxembourg Tél : (+352) 59 49 55 GSM : (+352) 621 277 983 E-mail : marieliselair@amail.com Registre du commerce : B176851 TVA : LU26158716

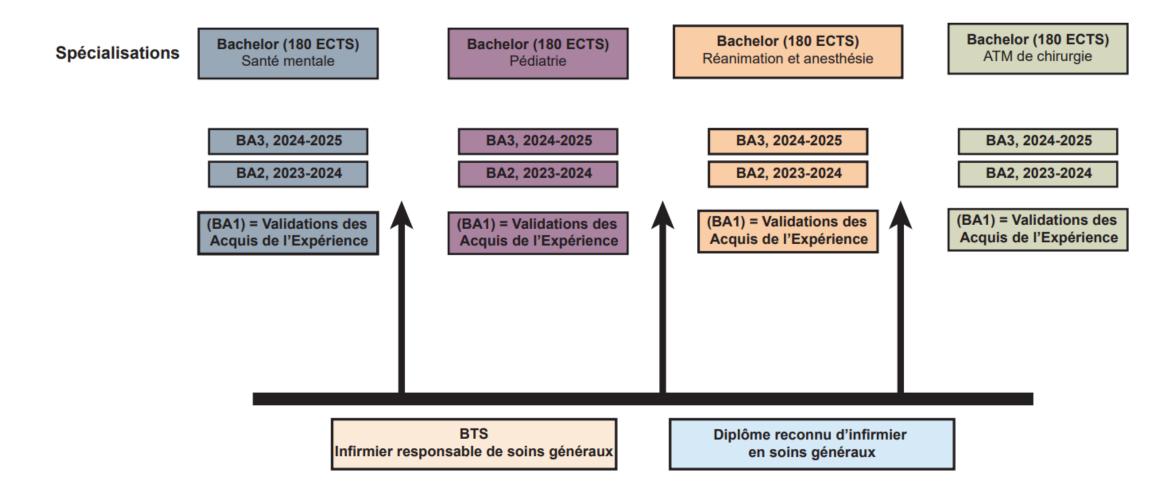
Etat des lieux des professions médicales et des professions de santé-Rapport final Synthèse version 2019-10-01 ML Lair, Santé et Prospectives



ASSOCIATION NATIONALE DES INFIRMIÈRES ET INFIRMIERS DU LUXEMBOURG

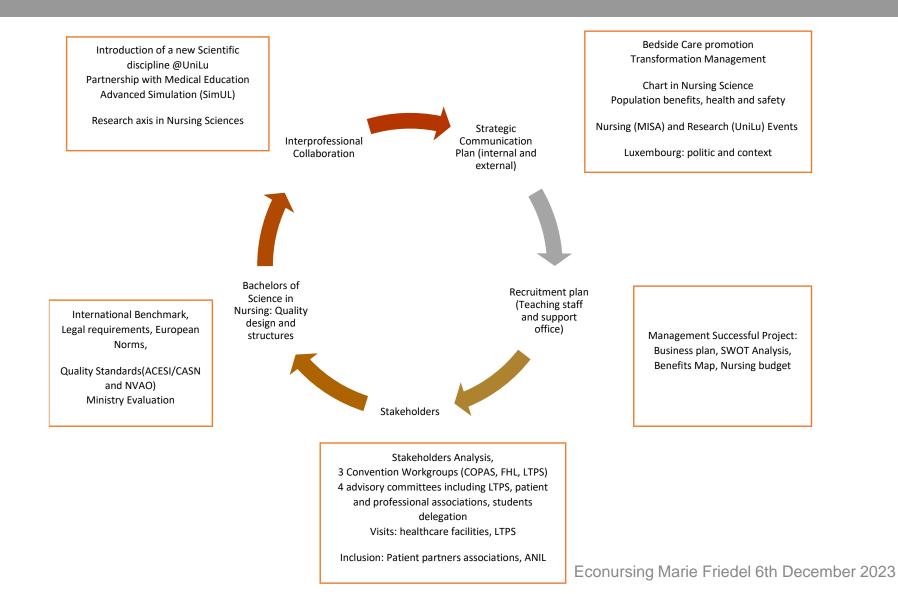






Collaborative approach to develop the new bachelors





Bachelors in Nursing Science at FSTM

□ FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE

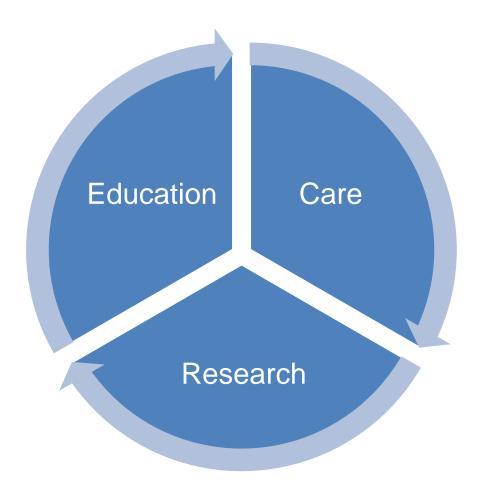
- Faculty of Science, Technology Medicine (FSTM)
- Multidisciplinarity
- Double mission
 - Education
 - Research
- Produce and disseminate knowledge
- Train responsible citizens



and

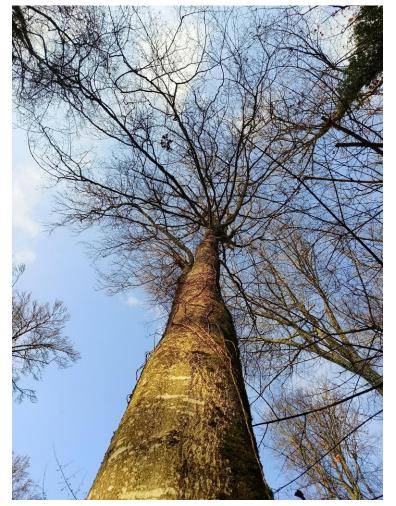
Academic bachelor in Nursing Science: a unique opportunity





What are nursing sciences?





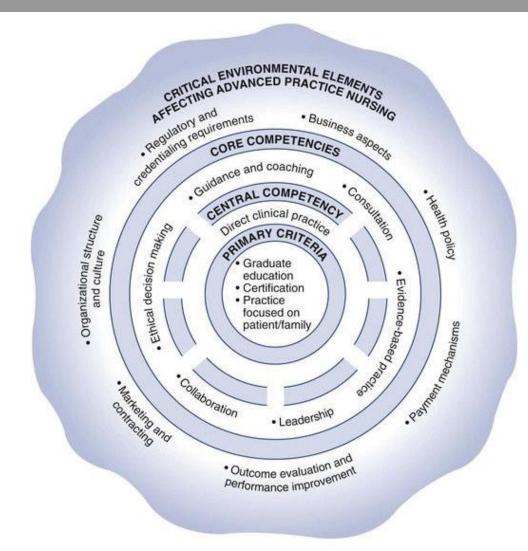
Credits: Marie Friedel

- Empirical knowledge
 Ethical knowledge
 Esthetic knowledge
 Personal knowledge
- Emancipatory knowledge

Carper BA. Fundamental patterns of knowing in nursing. ANS 1978;1(1):13–24. 1978 Aspen Publishers, Inc.

Competence approach





Tracy, M. F. et O'Grady, E. T. (2023). Hamric and Hanson's advanced practice nursing: an integrative approach (7th ed.). Elsevier.

Our vision

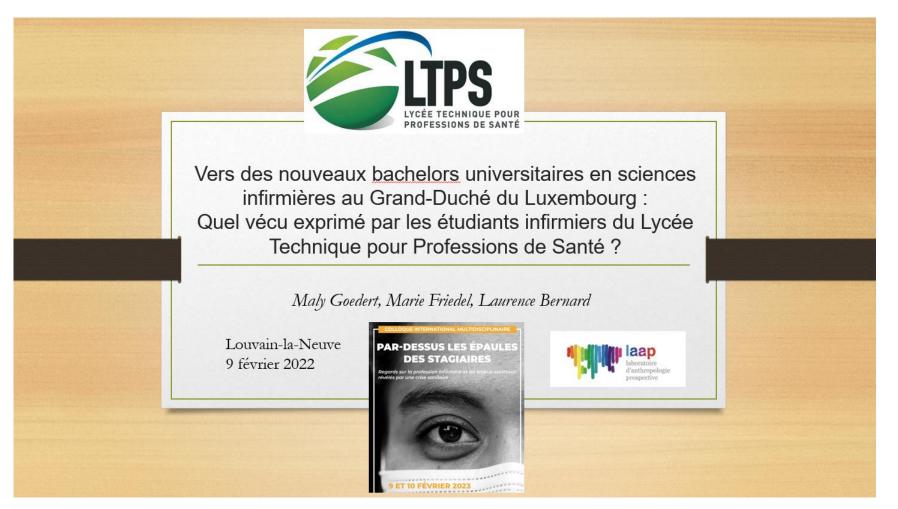




Image: Christophe Beau (reproduit avec permission) Basée sur Fleury & Fenoglio, Charte du Verstohlen, 2022

Accompanying the change





Econursing Marie Friedel 6th December 2023

Agreement of collaboration between University of Luxembourg and the Lycée Technique pour



UNIVERSITÉ DU LUXEMBOURG

Université du Luxembourg > News > L'Uni et le LTPS vont coopérer pour

L'Uni et le LTPS vont coopérer pour la formation des infirmiers

Faculté des Sciences, des Technologies et de Médecine (FSTM) Université / Administration centrale et Rectorat 20 juin 2023



Marie Friedel, Maly Goedert, Laurence Bernard

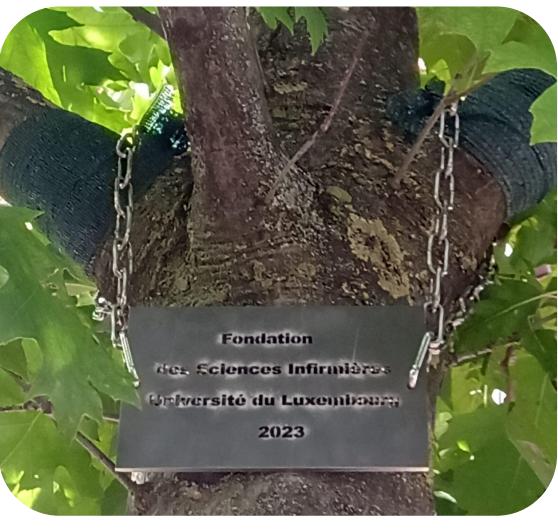
https://www.uni.lu/fr/news/luni-et-le-ltps-vont-cooperer-pour-la-formation-des-infirmiers/

Foundation





Credits: Aswin Lutchanah



First academic entry - 18 th September 2023





Start of the 4 new bachelors in Nursing Science - Specialisations





Assistant technique médical de chirurgie



Infirmier en anesthésie et réanimation



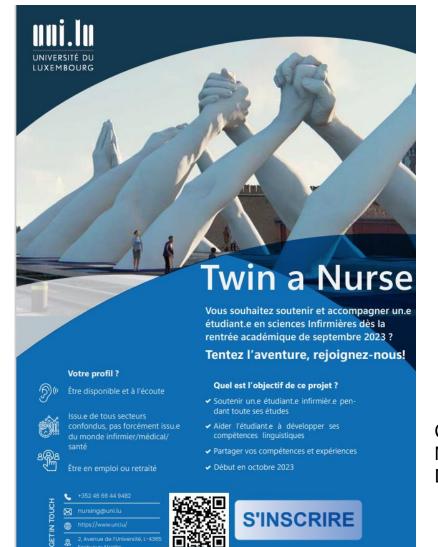
Infirmier en pédiatrie



Infirmier psychiatrique

Mentoring of nursing students by professional nurses in Luxembourg

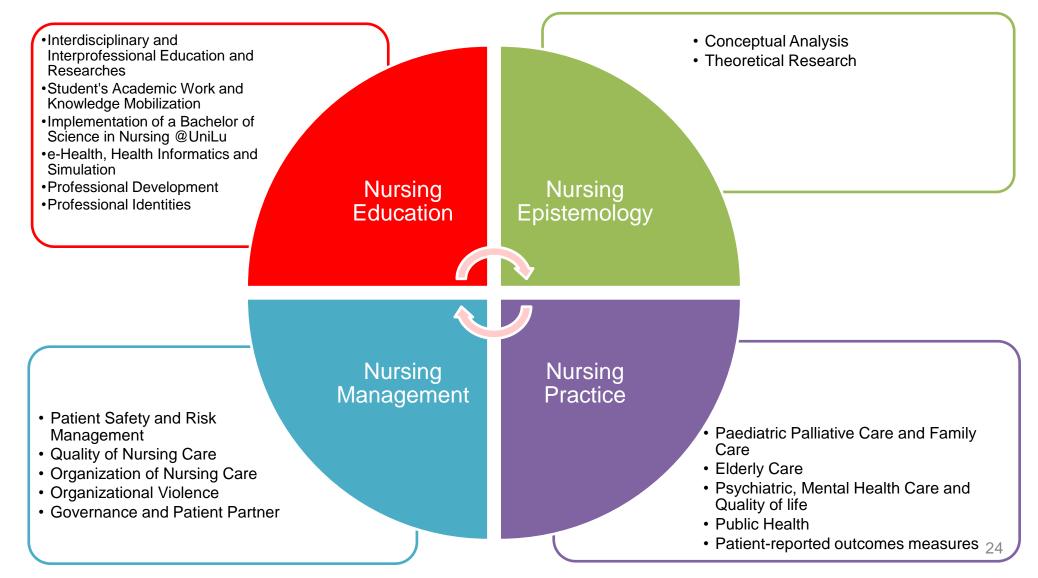




Coordinated by Mélissa Mohr MSc Educ and Dr Semra Smajic RN PhD

Research areas in Nursing Science (Bernard, Friedel, Holmes & Lecocq, 2023)







I Urgent need to promote environmental health

Origins of greenhouse gases in the health care sector



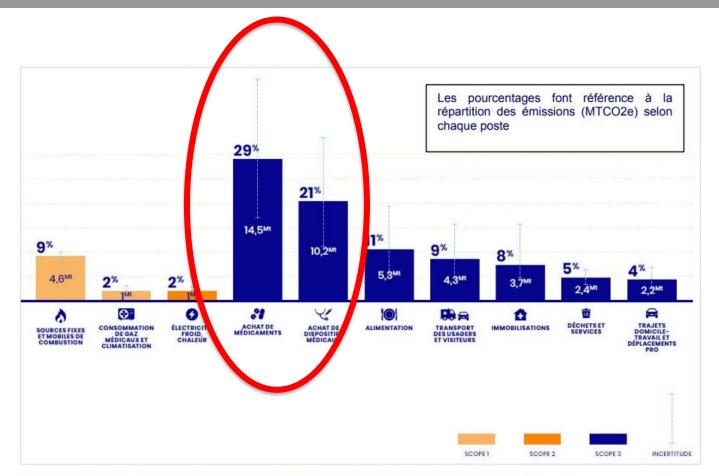


Figure 1 - Répartition des émissions de gaz à effet de serre du secteur de la santé (MtCO2e) Source: calculs The Shift Project 2023

https://theshiftproject.org/wp-content/uploads/2023/04/180423-TSP-PTEF-Rapport-final-Sante_v2.pdf

The Lancet countdown





Health-centred climate action could still save millions of lives every year. A just and equitable transition away from fossil fuels and towards renewable energy and energy efficiency can reduce the health harms of energy poverty, power high-quality healthsupportive services, and prevent the millions of deaths occurring annually from exposure to fuel-derived air pollution. Greener, people-centred cities, and balanced, low-carbon diets can support transformative improvements in physical and mental health.

https://www.lancetcountdown.org/2023-report/

THE SHIFT PR





Cop 28 à Dubaï : l'OMS veut plus de lien entre la lutte contre le changement climatique et la santé

L'Organisation mondiale de la Santé (OMS) a appelé, lundi, les négociateurs de la prochaine COP28, qui démarrera jeudi à Dubaï, à accorder davantage d'attention au lien entre la lutte contre le changement climatique et les soins de santé.



Publié le 27-11-2023 à 19h19 - Mis à jour le 27-11-2023 à 19h20



ARTICLES

Curriculum framework

Planetary Health Preparing Nursing Students for the Future

Image: The second se

Author Information ${igodot}$

Nurse Educator 48(6):p 293-297, November/December 2023. | *DOI*: 10.1097/NNE.00000000001420

NURSING SCHOLARSHIP

GUEST EDITORIAL

Building Sustainable Careers in Nursing Science: Scientific Innovations and Transdisciplinary Collaborations

REVIEW SUMMARIES

PUBLIC HEALTH NURSING IN WILEY

Nursing and Sustainable Development Goals (SDGs) in a COVID-19 world: The state of the science and a call for nursing to lead

Charles Peter Osingada MA, MPH, BSN^{1,2} | Carolyn M. Porta PHD, MPH, RN, PHN, FAAN^{1,3}

Public Health Nursing, 2020

SPECIAL ISSUE ARTICLES Di Free Access

Mandate for the Nursing Profession to Address Clim Change Through Nursing Education

Jeanne Leffers PhD, RN, FAAN 🔀, Ruth McDermott Levy PhD, MPH, RN, Patrice K. Nicholas DNSc, DHL(Hon.), MPH, MS, RN, ANP, FAAN, Casey F. Sweeney PhD, R

First published: 14 August 2017 | https://doi.org/10.1111/jnu.12331 | Citations: 72

Continuing Education: Journal of Nursing Scholarship is pleased to offer readers the opp

Consensus Statement

AMEE Consensus Statement: Planetary health and education for sustainable healthcare

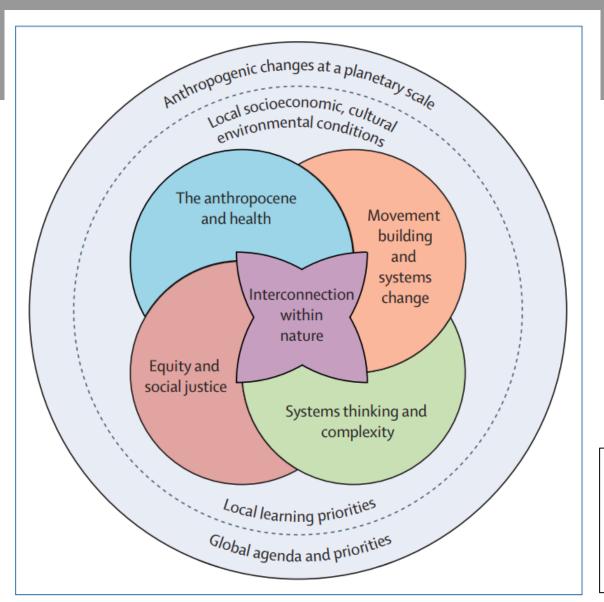
Emily Shaw, Sarah Walpole 🔽 💿, Michelle McLean 💿, Carmen Alvarez-Nieto 💿, Stefi Barna, Kate Bazin,

...show all

Pages 272-286 | Published online: 19 Feb 2021

Solution Cite this article Attps://doi.org/10.1080/0142159X.2020.1860207







Lancet Planet Health. 2021 May;5(5):e253-e255. doi: 10.1016/S2542-5196(21)00110-8.
 Epub 2021 Apr 21.

A framework to guide planetary health education

Carlos A Faerron Guzmán¹, A Alonso Aguirre², Barbara Astle³, Enrique Barros⁴, Brett Bayles⁵, Moses Chimbari⁶, Naglaa El-Abbadi⁷, Jessica Evert⁸, Finola Hackett⁹, Courtney Howard¹⁰, Jonathan Jennings¹¹, Amy Krzyzek¹², Jessica LeClair¹³, Filip Maric¹⁴, Olwenn Martin¹⁵,

Figure: The planetary health education framework





- 20-30% of care provided is not required/potentially harmful and represent a high cost
- Low-value-care harms patients (directly and indirectly) and threatens sustainability of healthcare systems.

Brownlee S., et al. (2017). Evidence for overuse of medical services around the world. Lancet Grimshaw, J. M., et al. (2020). De-implementing wisely: developing the evidence base to reduce low-value care. BMJ quality & safety.



 "Value in health care is the measured improvement in a person's health outcomes for the cost of achieving that improvement."



<u>Acad Med.</u> 2020 May; 95(5): 682–685.

Published online 2019 Dec 10. doi: <u>10.1097/ACM.00000000003122</u>

PMCID: PMC7185050 PMID: 31833857

Defining and Implementing Value-Based Health Care: A Strategic Framework

Elizabeth Teisberg, PhD,¹ Scott Wallace, JD, MBA,²² and Sarah O'Hara, MPH³





Building a resilient and sustainable nursing workforce



+ EQUITY IN CARE



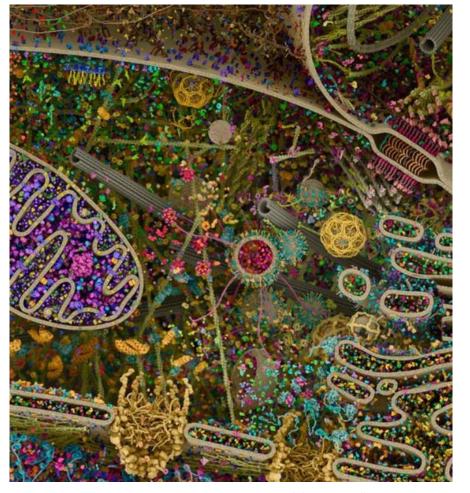
3. Presentation of the new course in Econursing



- 25 teaching units
- 2 ECTS
- Common to all 4 bachelors of Nursing Science -specialization
- Invited experts
- Exam: Individual written essay

Tackling complexity

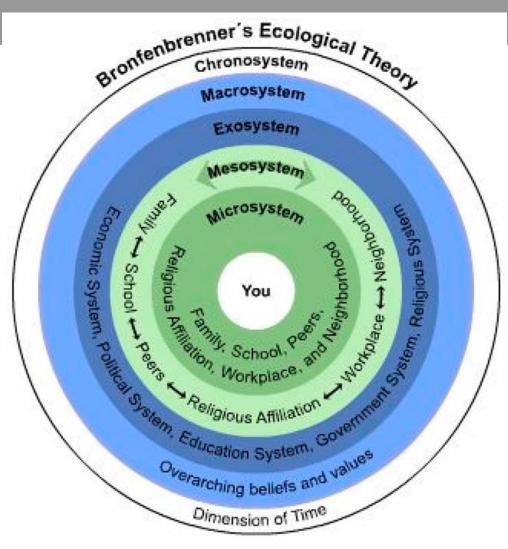
- Human beings and the environment are interrelated
- Human actions impact the environment
- Environmental quality determines human health
- Environmental health begins with inner ecology
- "Complex is what is woven together". Edgar Morin





Systemic approach





https://www.mdpi.com/children/children-03-00011/article_deploy/html/images/children-03-00011-g002-1024.png

Searching for homeostasis / Equity

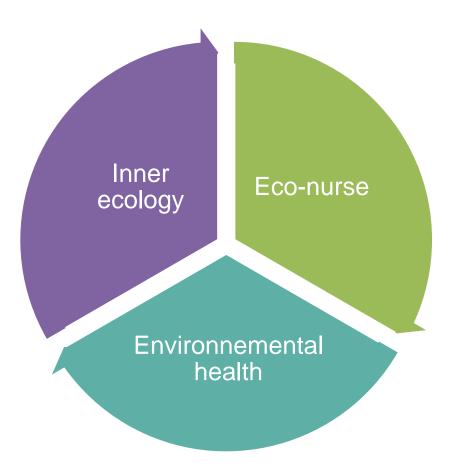




Fountain in Montréal, 2023 Credits: Marie Friedel

Three interconnected dimensions in the course Econursing





With Frederika Roberts, MSc Psy





- Gratitude (Mc Gullough)
- Will to meaning (Frankl)
- Mindfulness (Kabat-Zinn)
- Connectedness (Blum)
- Emotional intelligence (Goleman)
- Self-compassion/empathy (Eisenberg)
- Learned optimism (Seligman)
- Learned hopefulness (Zimmerman)
- Social support (Cohen)
- Humor (Martin)
- Locus of control (Rotter)
- Sense of coherence (Antonovsky)

Evidence based practices



éco-infirmier	QUI SUIS JE ?	INTERVENTIONS	CONTACT	LIE
Philippe Perrin				
	ENVIRONN SANTÉ FORMATIC			

https://www.ecoinfirmier.com/

How can we act as econurse? In pediatrics, anesthesia, operating room, psychiatry...

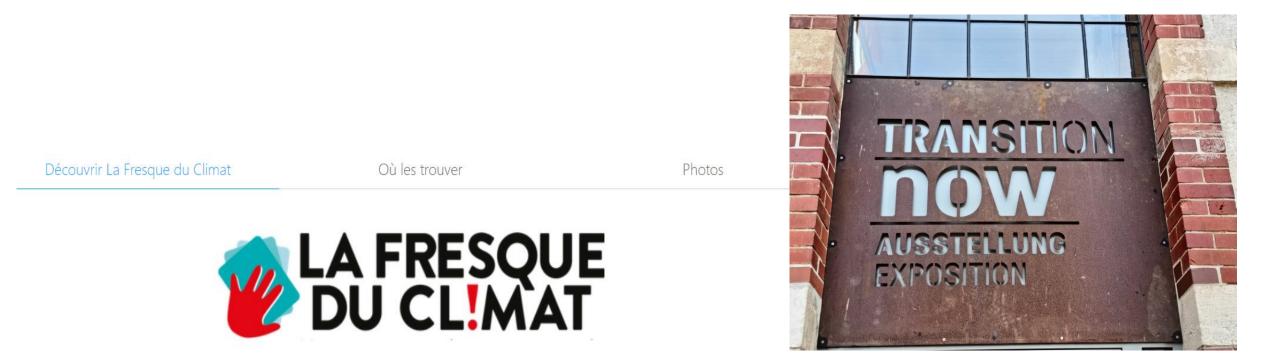


- Environnemental Health
- Salutogenesis (A. Antonovsky, 1979)
- Impact on well-being/eco-anxiety
- Group exercices on low-value-care



Fresque du climat with Letz'shift and the collaboration of Dan Lecocq





Fresque du Climat au Luxembourg : un atelier pour sensibiliser de façon ludique et Illaborative au dérèglement climatique Exhibition at Ellergronn Credits: Marie Friedel

https://www.letzshift.lu/fr/solutions-locales/la-fresque-du-climat-luxembourg

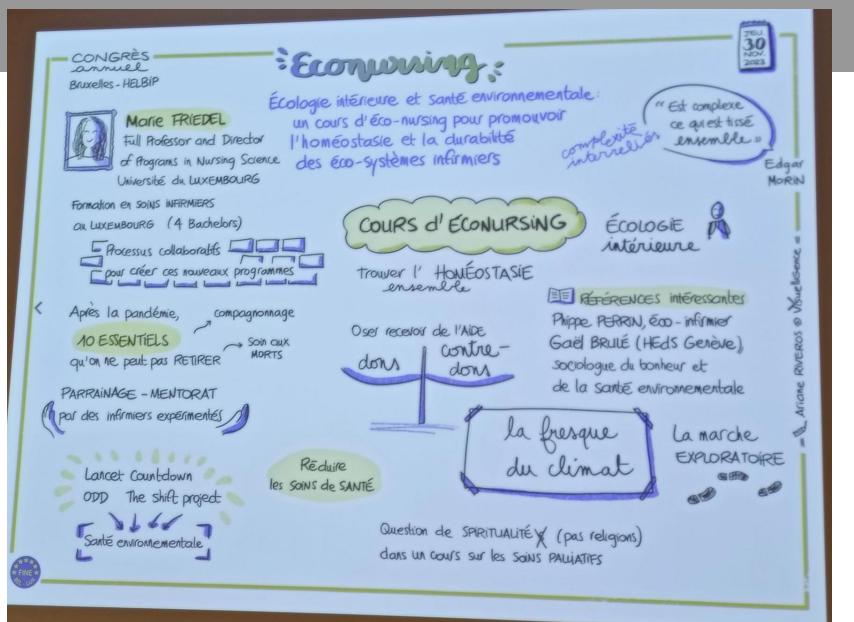
Exploratory walking on Belval campus

- "Walking diagnostics" on the Belval campus (Community Health)
- Collective feed-back and presentation to the Sustainability Team of the University





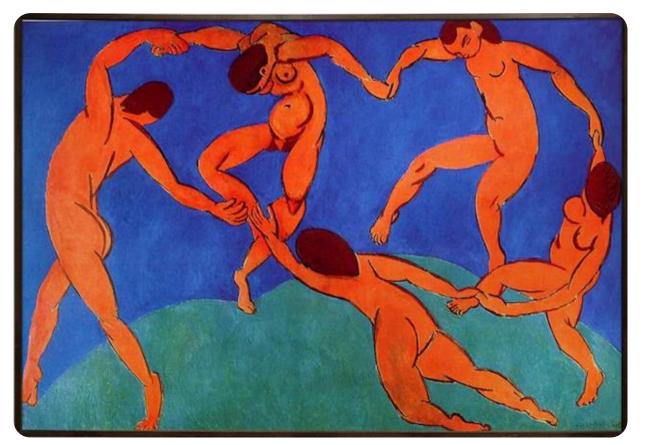
Synthesis made by Ariane Riveros



UNIVERSITÉ DU LUXEMBOURG

Dance of caring (Boyken and Schoenhoefer, 1993)





https://www.etsy.com/listing/1052286634/

La danse II, Henri Matisse (1932)

Econursing Marie Friedel 6th December 2023

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- To Matthieu Gillieron and Laurent Betry
- To the government of Luxembourg
- To all supporters of our nursing science unit





Letz' discuss!