perception and appraisal of views out



Yunni Cho | Giulia Passoni PhD Candidates



Image by: Yunni Cho, 'biophilia (noun)', SciFilmIt Hackathon 2021



vitality *physiological human needs*





Image Source: Date and Time

vitality

Environmental impact





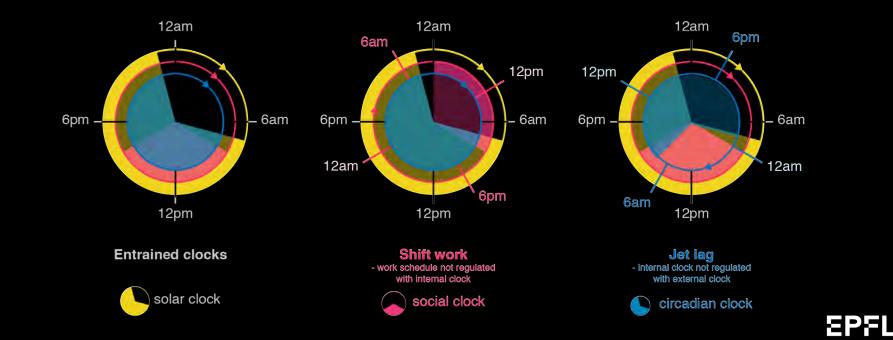
Behavioral/Lifestyle impact

EPFL

Health implications of disrupted circadian rhythms and the potential for daylight as therapy

Jason Brainard, M.D.,¹ Merit Gobel, B.S.,¹ Benjamin Scott, M.D.,¹ Michael Koeppen, M.D.,² and Tobias Eckle, M.D., Ph.D.¹





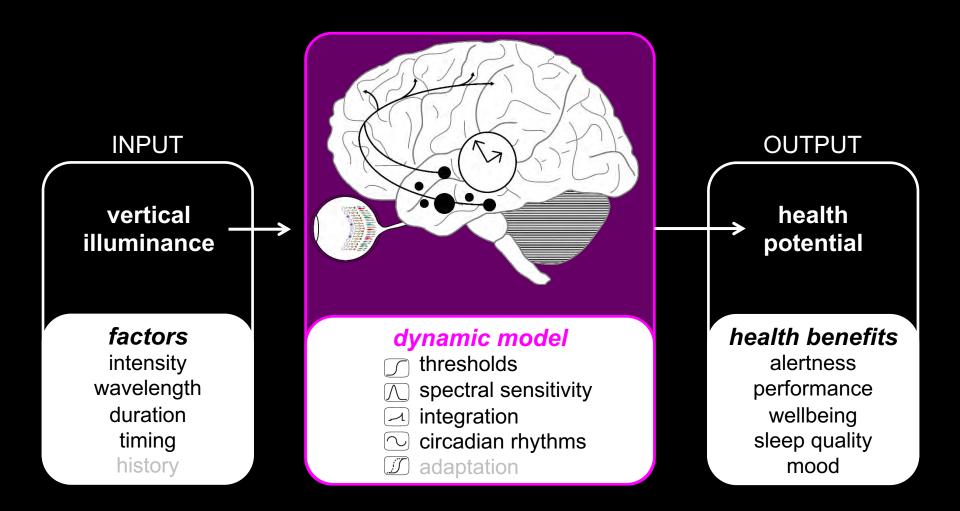
non-visual system

effects of ocular light exposure on human health

Dr. Maria Amundadottir

LIPID PhD alumnus Co-Founder of OCULIGHT Data Scientist and Entrepreneur, Iceland



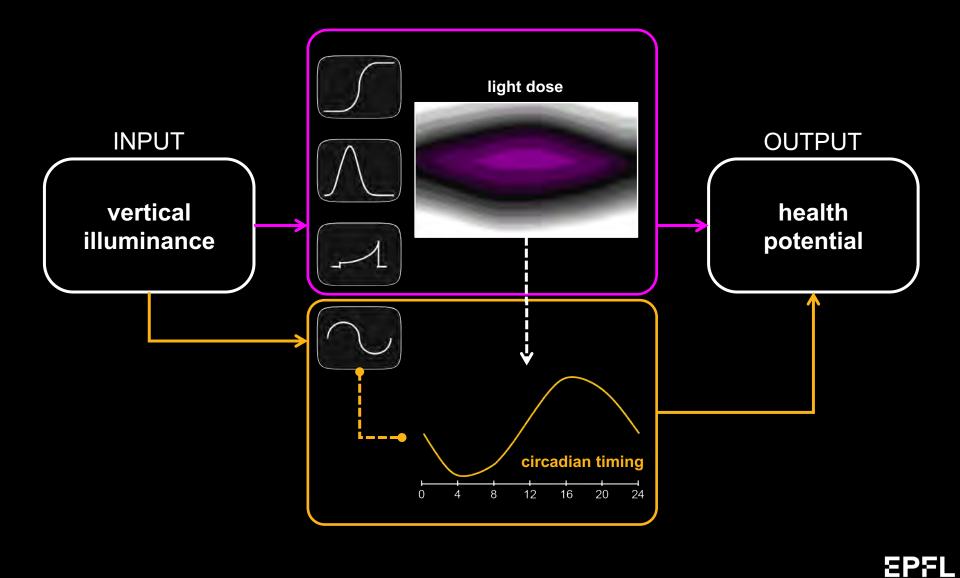




dynamic model

maximize the daily light dose without disturbing circadian timing

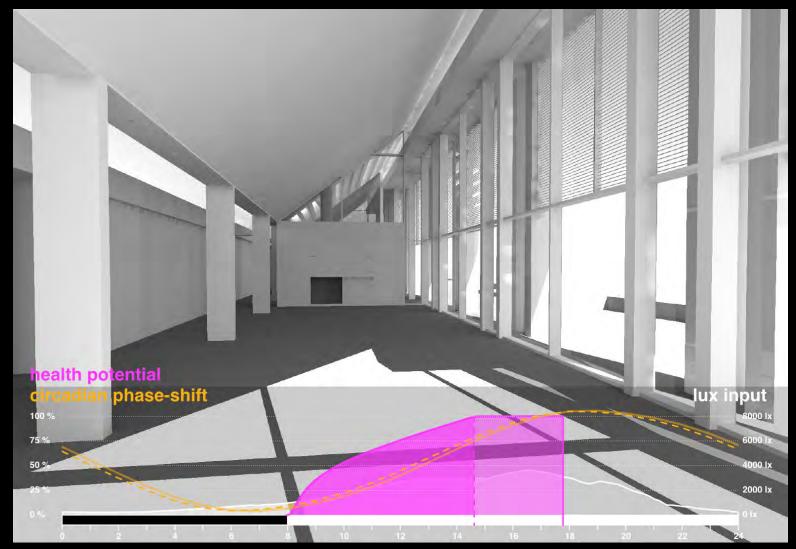




dynamic model

cumulative dose and daily cycle





alertness and spectral diet

impact of daily lighting conditions

Dr. Victoria Soto Magan | Forrest Webler LIPID PhD Alumnus, PostDoc ETH Zurich | PhD Candidate

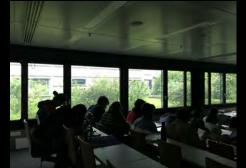


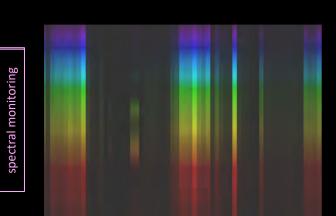
effect of spectrum 'bluer' vs neutral



effect of intensity bright vs dim





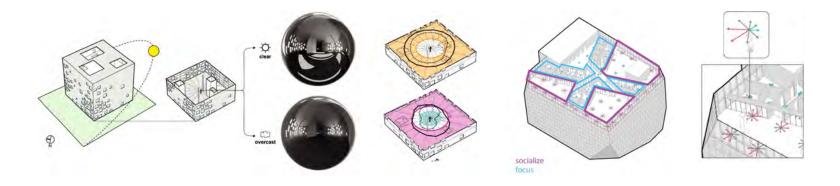


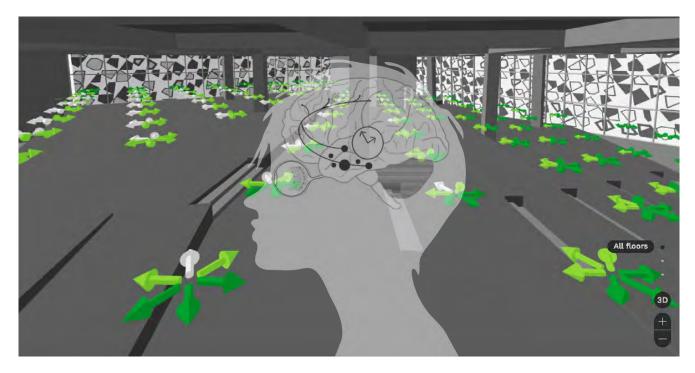


EPFL

SPECTRACE wearable sensor

TAKING THE OCCUPANT'S WELL-BEING INTO CONSIDERATION WHEN DESIGNING







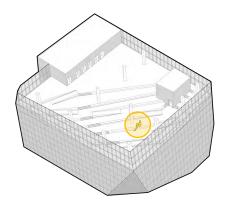


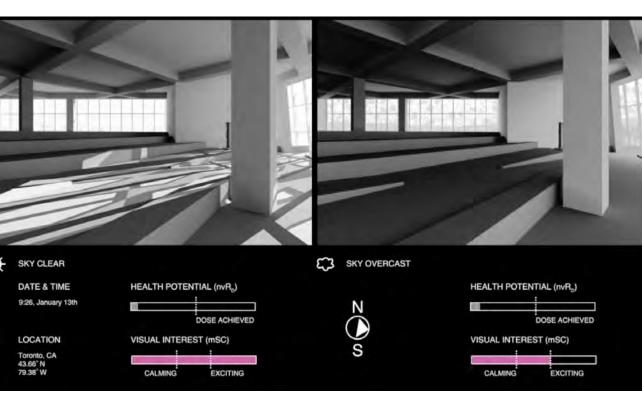
DAYLIGHT AS A DYNAMIC AND SENSORIAL EXPERIENCE



Ryerson Student Learning Center Toronto | Snøhetta & Zeidler Partnership



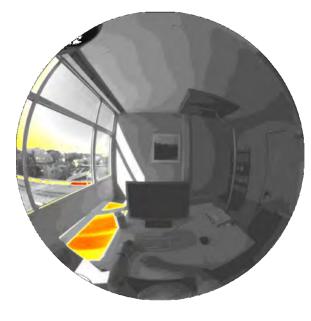






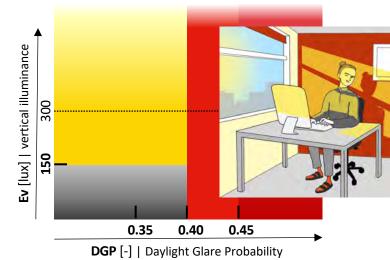










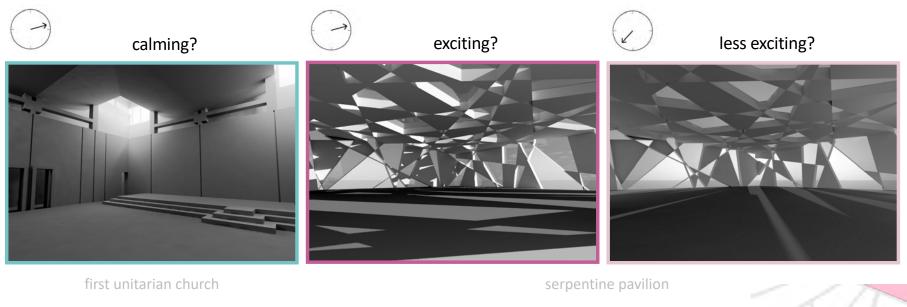


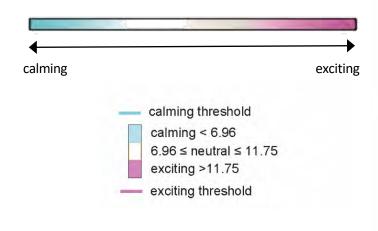


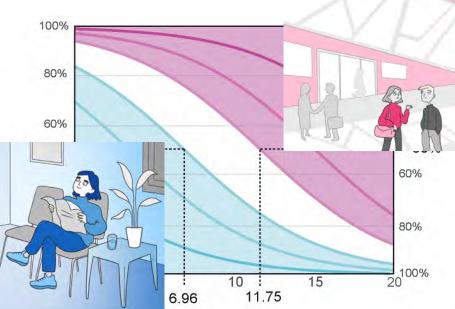


OCULIGHT dynamics

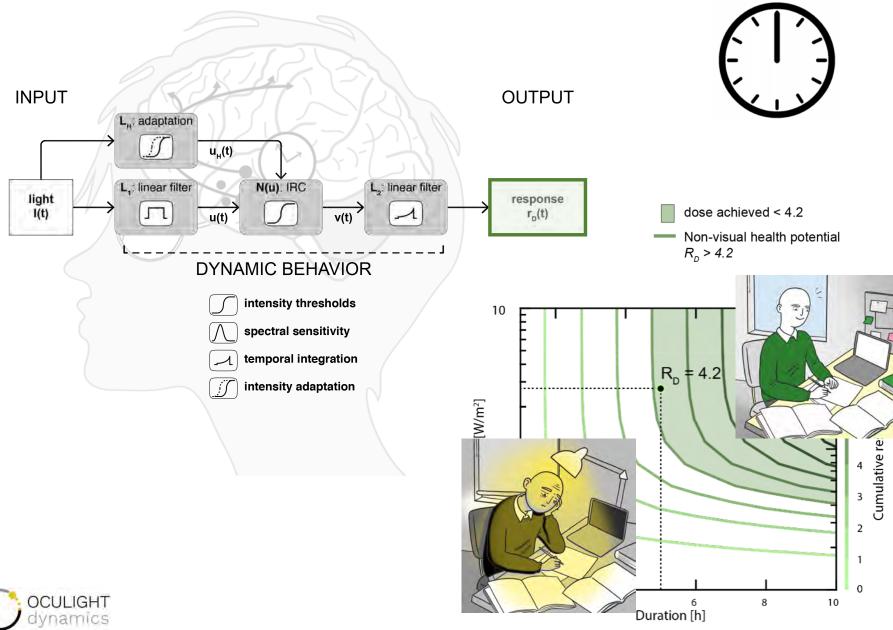




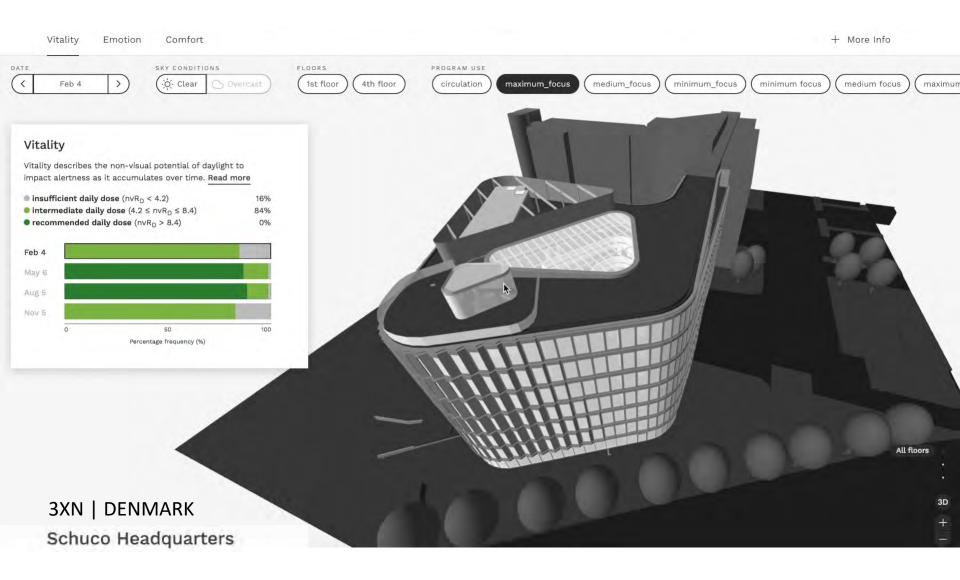








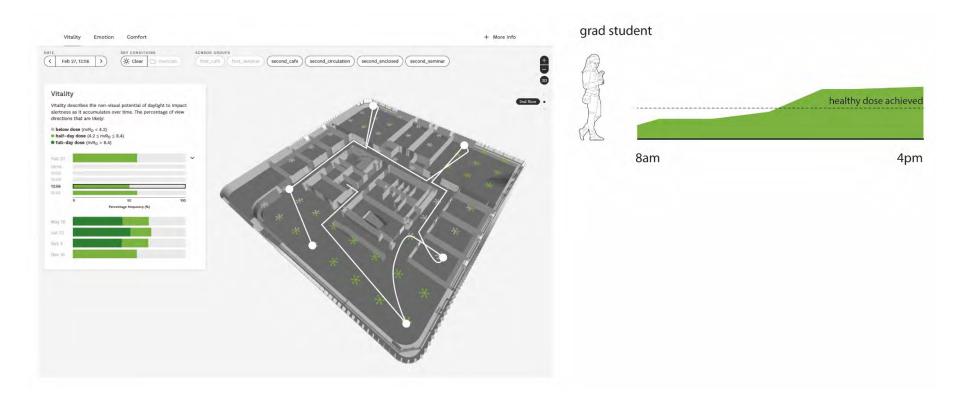
INTERACTIVE VISUALIZATION





behavior analytics

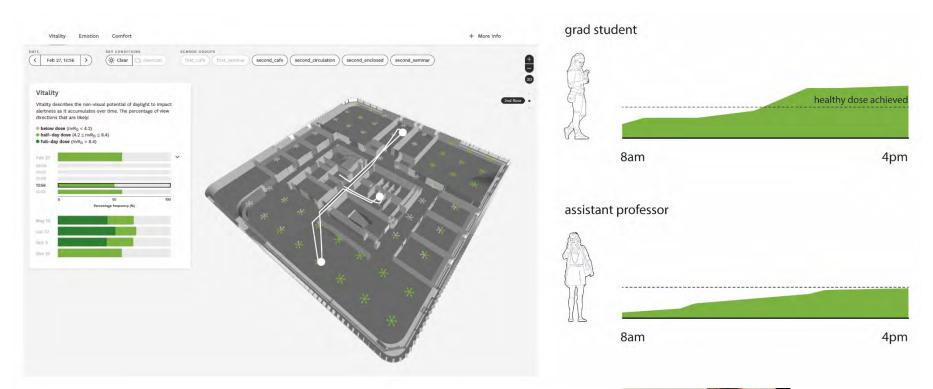
from building performance to *occupant experience* in buildings...





behavior analytics

from building performance to *occupant experience* in buildings...

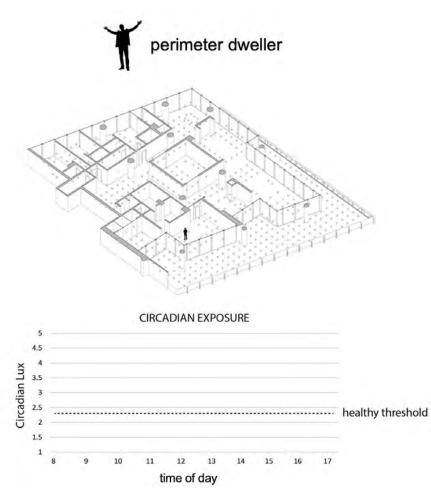


... which can be combined with in-situ monitoring using wearable technology



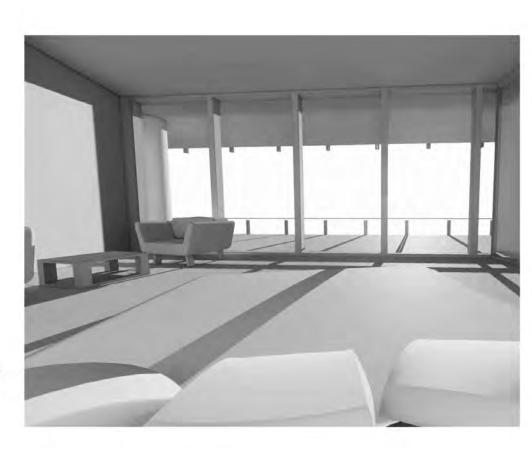


behavior analytics

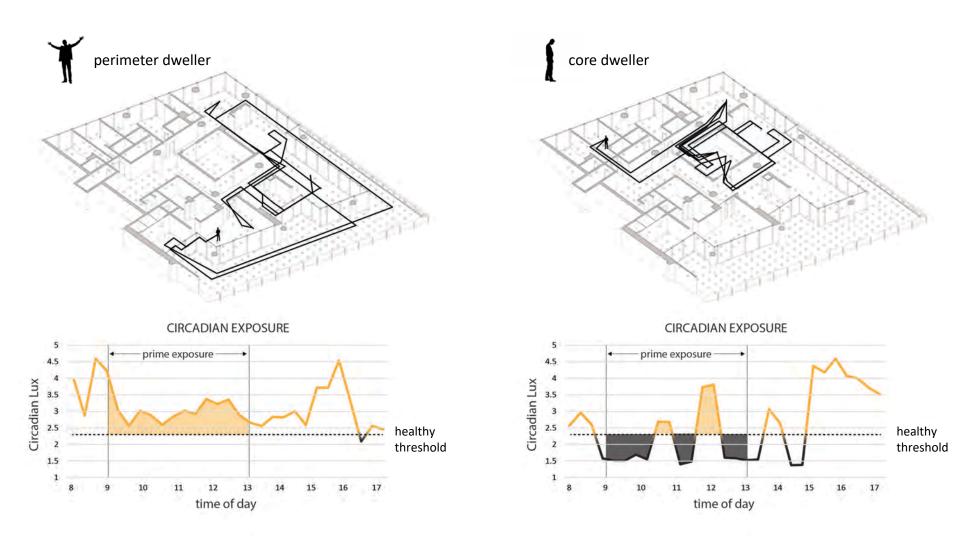


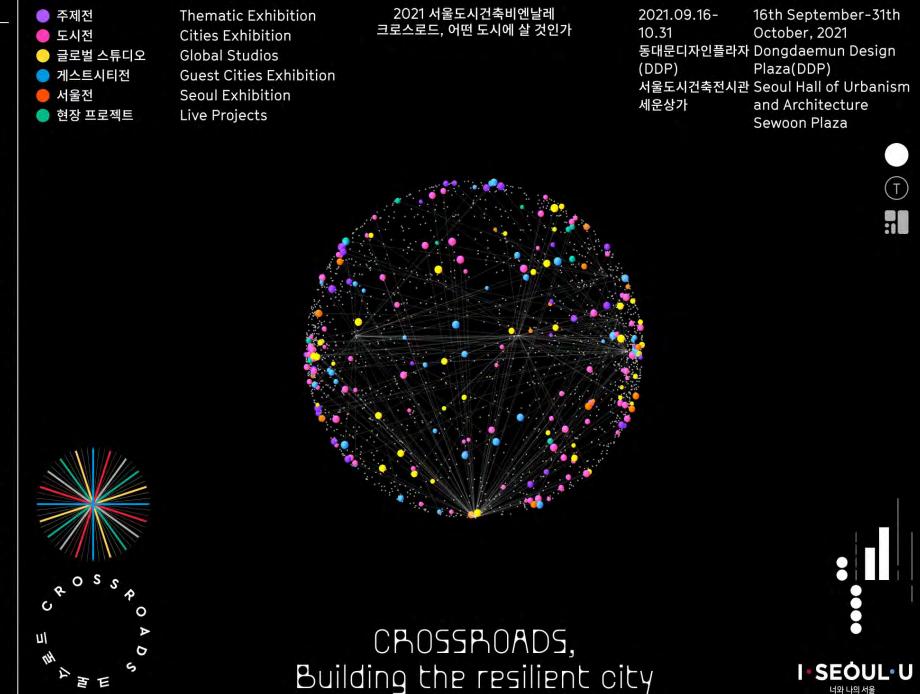


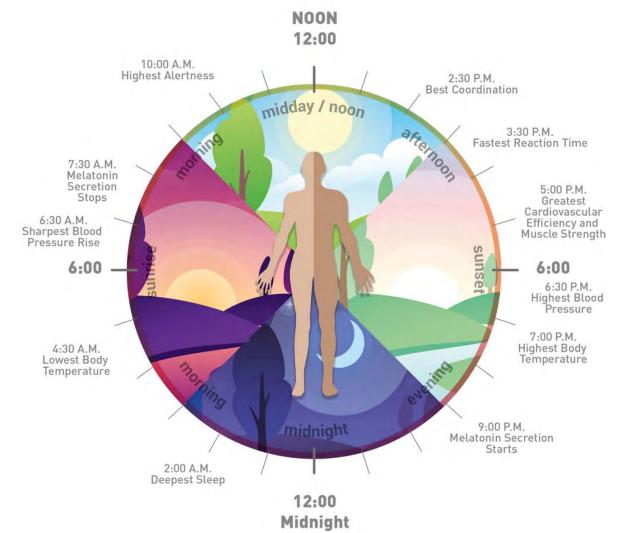
Surf Club, Miami | Meier & Partners



behavior analytics

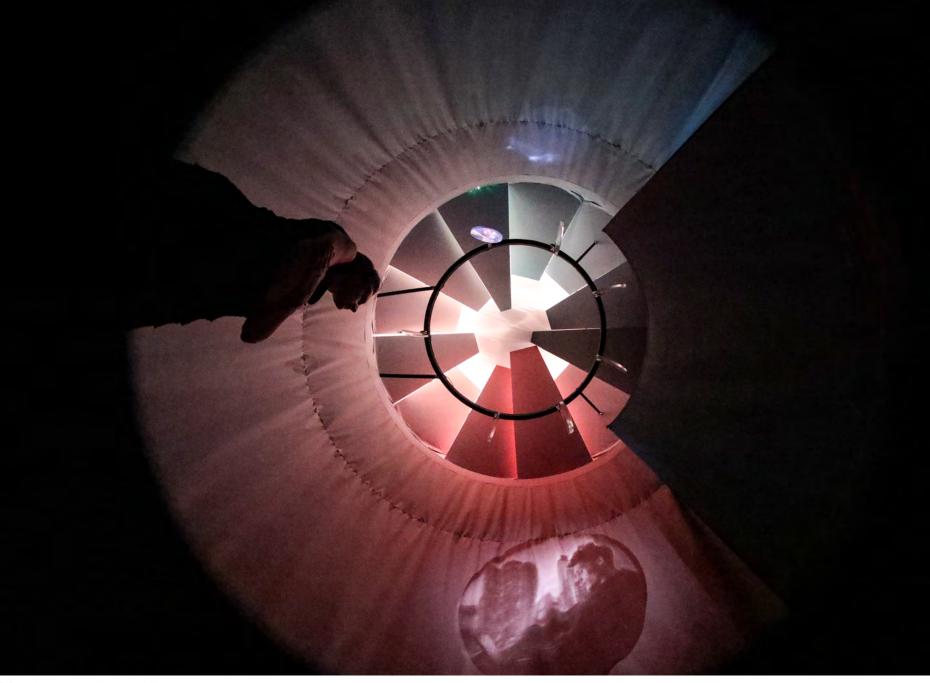


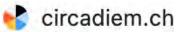




https://www.opensourcedworkplace.com/news/what-is-circadian-lighting-and-how-does-circadian-lighting-affect-productivity-





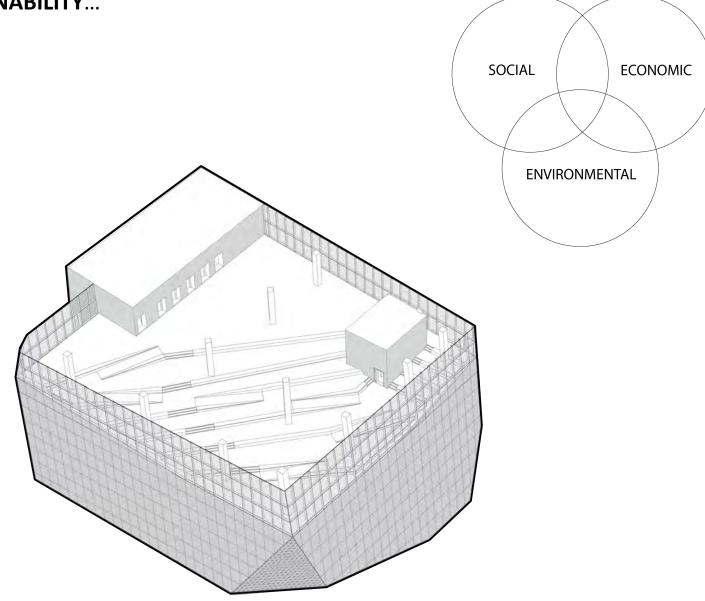




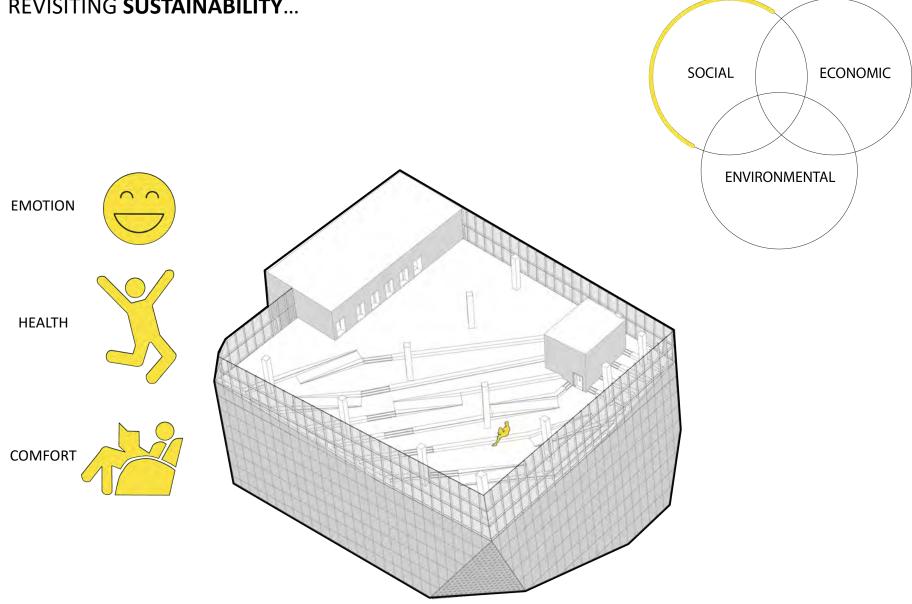
EPFL Amplifier for Art, Science and Society Pavilions

LIGHTEN UP: Inside the Biology of Time March 24, 2023 to July 30, 2023

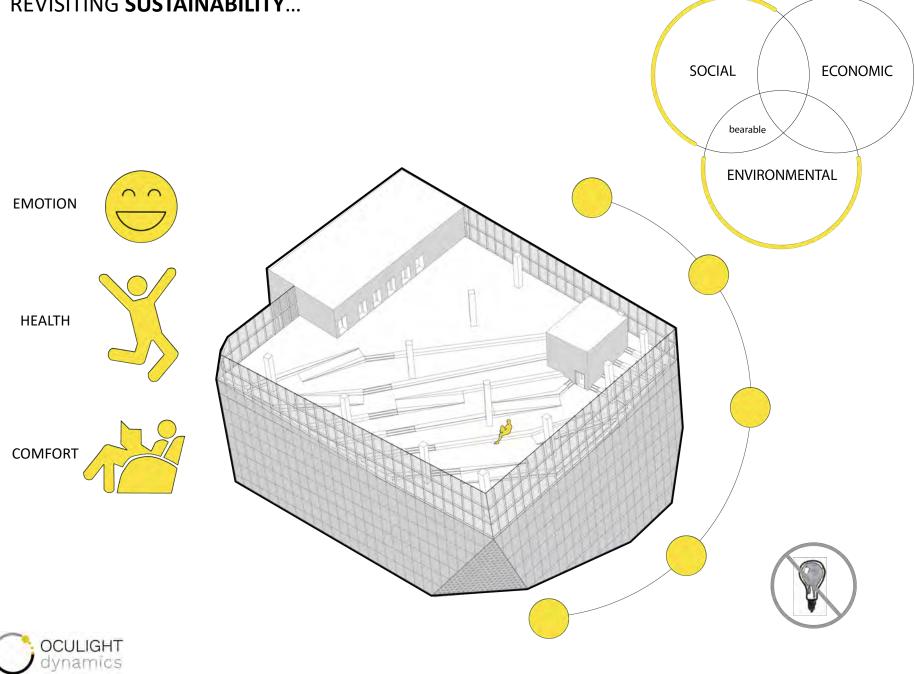
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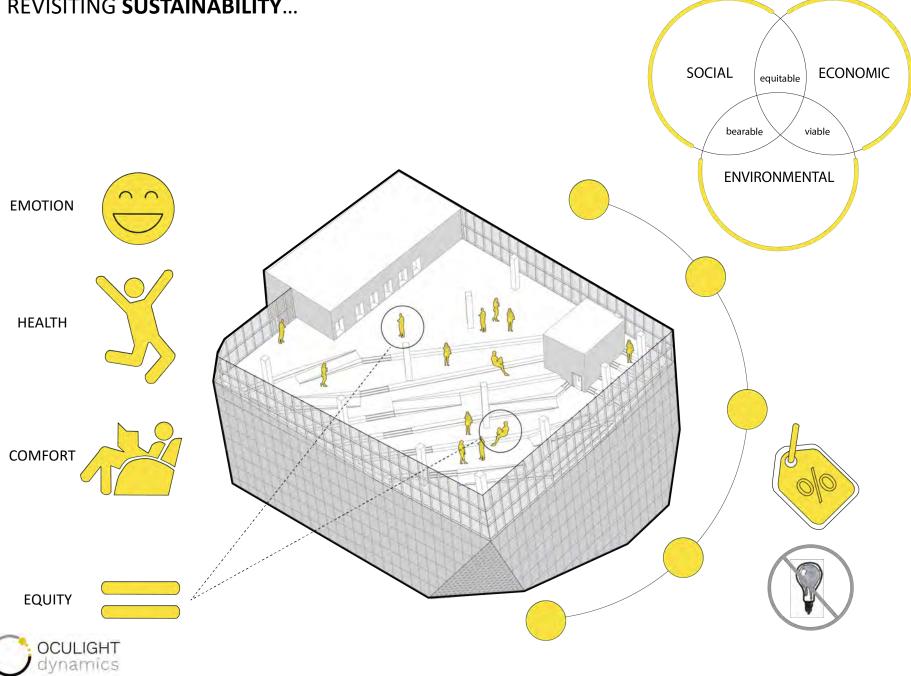










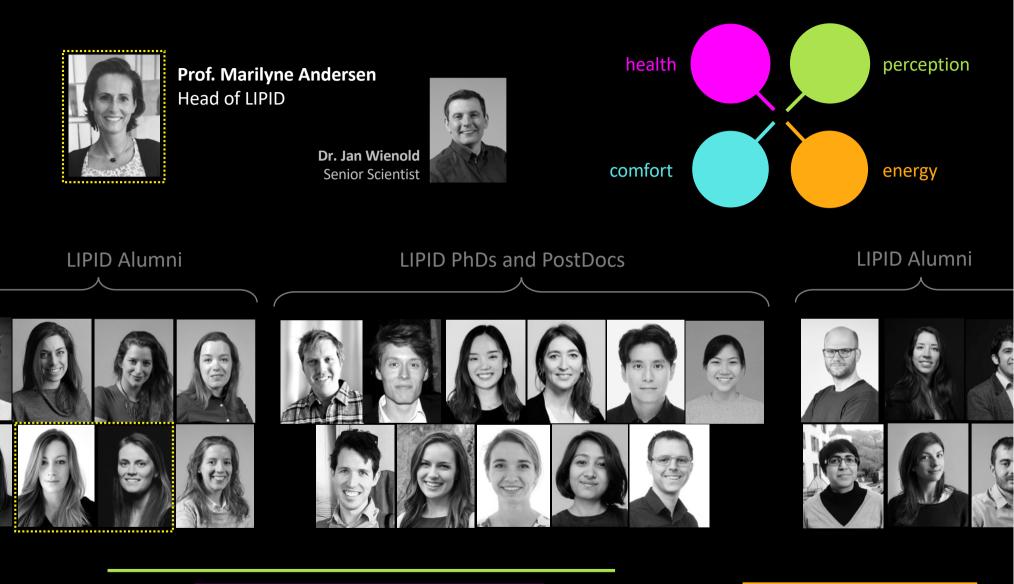


... BY TAKING THE OCCUPANT'S PERSPECTIVE

EPFL



EPFL - LIPID | Laboratory of Integrated Performance in Design



OCULIGHT <u>http://oculightdynamics.com</u>

http://lipid.epfl.ch