

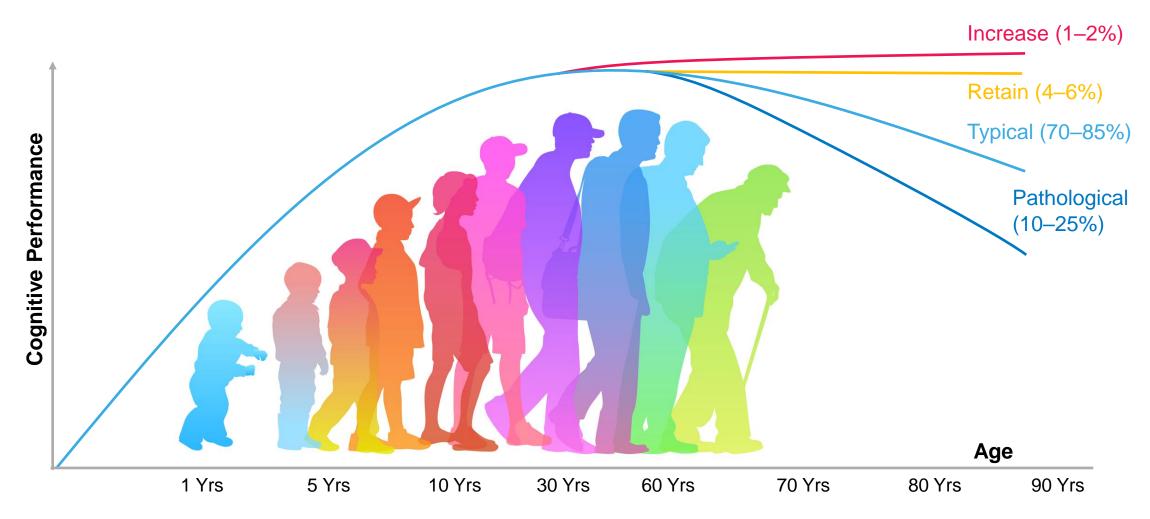
CC0007 Science and Technology for Humanity

Cognitive Ageing: Performance, Reserve, Resilience

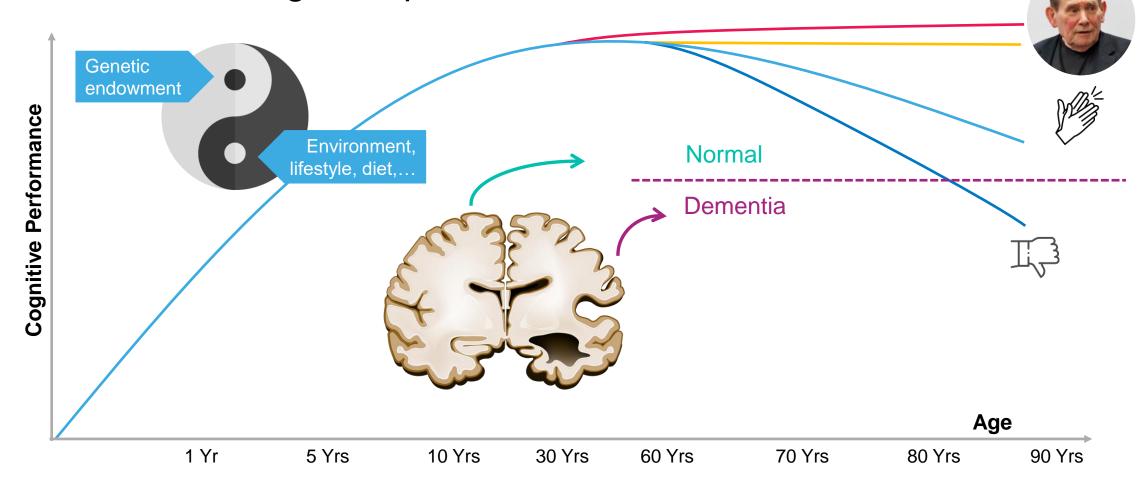
Prof Balázs Gulyás, NTU



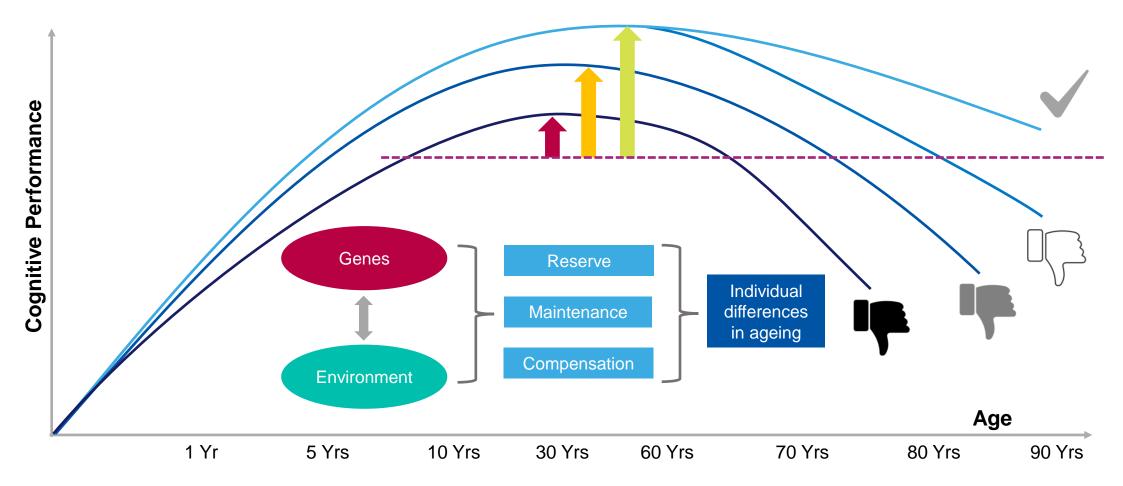
Changes in cognitive performance



Ageing-related challenges in cognitive performance 1 Maintenance of cognitive performance?

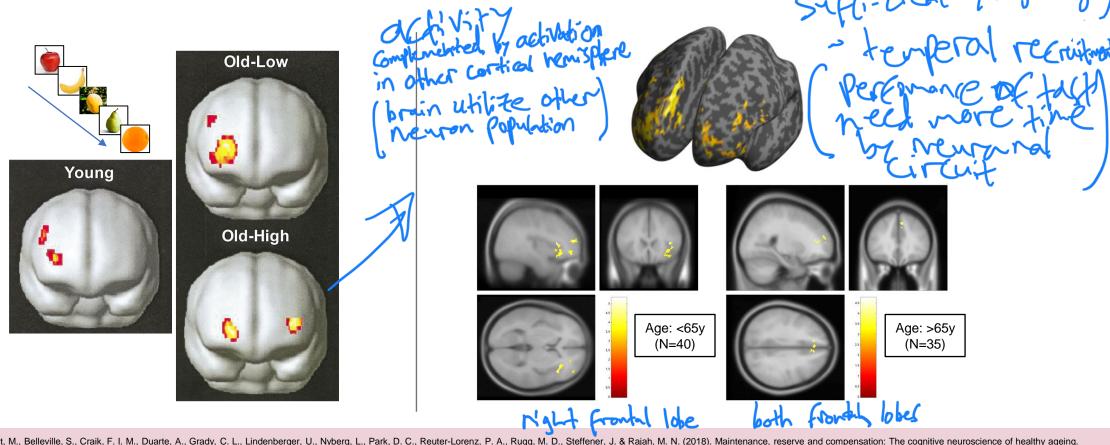


Ageing-related challenges in cognitive performance 2 Problems with cognitive reserve?



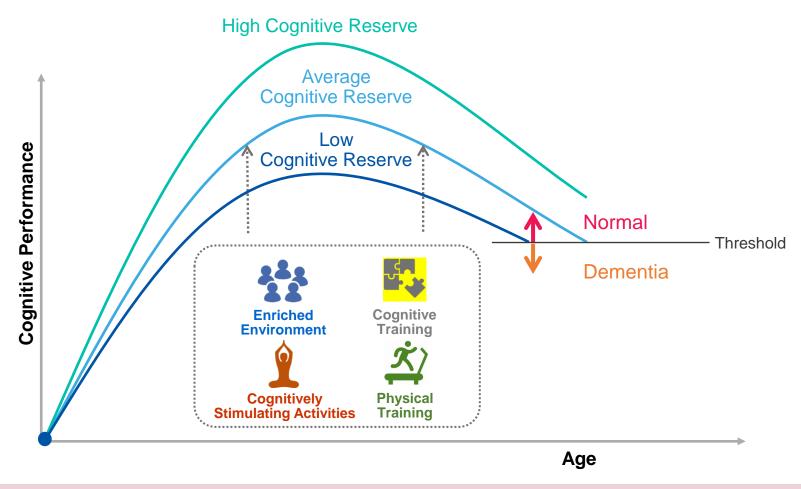
= Spatial recruitres (aging brain mobilité Ageing-related challenges in cognitive performance 3

Compensation? Maintenance and practice?



Left panel: Cabeza, R., Albert, M., Belleville, S., Craik, F. I. M., Duarte, A., Grady, C. L., Lindenberger, U., Nyberg, L., Park, D. C., Reuter-Lorenz, P. A., Rugg, M. D., Steffener, J. & Rajah, M. N. (2018). Maintenance, reserve and compensation: The cognitive neuroscience of healthy ageing. Nature Reviews Neuroscience, 19(11), 701-710. https://doi.org/10.1038/s41583-018-0068-2 Right panel: NTU Cognitive Neuroimaging Centre (CONIC)

Importance of Cognitive Reserve Building, Maintenance and Compensation



Gulyás, B., Mitra, R., Vyas, A., Amin, S. M., Gulyás, V., Padmanabhan, P. (2018). Aging, brain aging and cognitive resilience. Innovation, 16(1), 33-38. http://www.innovationmagazine.com/volumes/v16n1/coverstory2.html

The Blue Zones



