

## **Foresight Mental Capital and Wellbeing Project: Science reviews**

### **Mental capital through life**

- SR-E1: Neuroscience in education
- SR-E2: Neuroscience of human reward
- SR-E3: Neuroeconomics
- SR-E4: Cognitive reserve and mental capital
- SR-E5: Mapping brain maturation and development of social cognition during adolescence
- SR-E6: Reinforcement, impulsivity and behavioural economics
- SR-E7: The neural basis of resilience
- SR-E8: Neurocognition and social cognition in adolescent drug users: vulnerability and consequences
- SR-E9: Pharmacological cognitive enhancement
- SR-E10: Stem cells in neural regeneration and adult neurogenesis
- SR-E11: Early detection of mild cognitive impairment and alzheimer's disease: an example using the CANTAB PAL
- SR-E12: Neurocognition and neuroimaging in anxiety disorders: implications for treatment and functional outcome
- SR-E13: Neurocognition and social cognition in middle-aged and older adult drug users: vulnerability and consequences
- SR-E14: Determinants of normal cognitive ageing: implications for mental capital
- SR-E15: The neuroscience of social cognition in teenagers: implications for inclusion in society
- SR-E16: Stress-related mood disorder: novel concepts for treatment and prevention
- SR-E17: Nutrition, cognitive wellbeing and socioeconomic status
- SR-E18: Nutrition and cognitive health
- SR-E20: Effect of chronic stress on cognitive function through life
- SR-E21: Depression and its toll on mental capital
- SR-E22: Cognitive training: influence on neuropsychological and brain function in later life
- SR-E24: The effect of physical activity on mental capital and wellbeing
- SR-E25: Technology solutions to prevent waste of mental capital
- SR-E27: Housing as a determinant of mental capital
- SR-E29: Brain-computer interfaces and cognitive neural prostheses
- SR-E31: The cellular and molecular logic of neural circuit assembly: progress and challenges

### **Learning through life**

- SR-A2: Learning at work: opportunities and barriers
- SR-A3: The skills needed for economic growth
- SR-A4: Participation in learning; barriers to learning

SR-A5: Evidence-informed principles from the teaching and learning research programme  
SR-A7: Estimating the effects of learning  
SR-A9: Self-regulation and executive function: what can teachers and schools do?  
SR-A10: Models of provision of lifelong learning: how is it done around the world?  
SR-A11: The economic importance of social skills: A short (and selective) survey of recent research

## **Mental health**

SR-B1: Genetics of mental ill-health in children and adults and interaction of genes with social factors  
SR-B2: The influence of demographic, social and physical factors on ageing and the mental health of older people  
SR-B3: The influence of social, demographic and physical factors on positive mental health in children, adults and older people  
SR-B4: The influence of social, demographic and physical factors on mental disorders in children and adolescents  
SR-B5: The mental ill-health of prisoners  
SR-B6: The mental ill-health of homeless people  
SR-B7: The mental ill-health of children in local authority care  
SR-B8: Mental ill-health: cost implications  
SR-B9: Factors influencing recovery from serious mental illness and enhancing participation in family, social and working life  
SR-B10: The influence of social, demographic, physical and any other risk factors on the prevalence and consequences of personality disorders  
SR-B11: Epidemiological linkages between mental ill-health and violence: risk factors & wider consequences  
SR-B12: Genetics of ageing, mental ill-health and dementia in the elderly  
SR-B13: The mental ill-health of people who migrate, and their descendants: risk factors, associated disability & wider consequences  
SR-B14: Influence of social, demographic and physical factors on substance abuse in all age groups  
SR-B15: Neurocognition and neuroimaging in major depressive disorder and bipolar depression: implications for treatment and functional outcome

## **Wellbeing and work**

SR-C1: Current sources of workplace stress and wellbeing  
SR-C2: Links between mental wellbeing at work and productivity  
SR-C3: The impact of management style on mental wellbeing at work

SR-C4: Flexible working time arrangements and their impact on work-family interface and mental wellbeing at work  
SR-C5: The impact of new technology in the workplace on mental wellbeing  
SR-C6: Stress management and wellbeing interventions in the workplace  
SR-C7: Working longer: hours of work and health  
SR-C8: Leisure: the next 25 years  
SR-C9: Training and its significance in the workplace  
SR-C10: Careers at work  
SR-C11: Violence at work

### **Learning difficulties**

SR-D1: Specific Language Impairment  
SR-D2: Dyslexia  
SR-D3: Adult intellectual (learning) disabilities  
SR-D4: Dyscalculia  
SR-D5: Deafness and hearing impairment  
SR-D7: Genetics and the future diagnosis of learning disabilities  
SR-D8: Conduct disorder and antisocial behaviour in the under-fives  
SR-D9: Social cognition and school exclusion  
SR-D10: Autism spectrum conditions  
SR-D11: Attention Deficit Hyperactivity Disorders  
SR-D12: New technologies and interventions for learning difficulties: dyslexia in finnish as a case study  
SR-D13: Trajectories of development and learning difficulties  
SR-D14: Early neural markers of language learning difficulty in german  
SR-D15: Depression in childhood and adolescence  
SR-D16: Eating disorders

### **Cross project**

SR-X2: Psychological wellbeing: evidence regarding its causes and consequences  
SR-X3: Neurobiology of wellbeing: a life-course perspective  
SR-X5: Comparative cultural perspectives on wellbeing  
DR- 1: Technology futures  
DR- 2: The effect of the physical environment on mental wellbeing