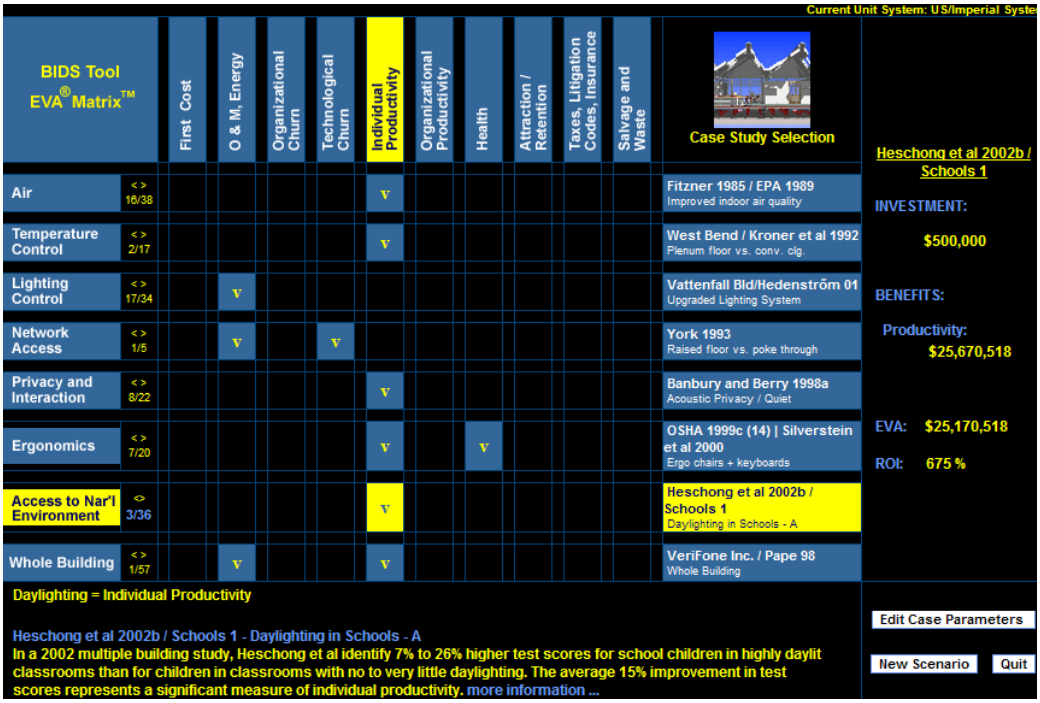
48-729: SUSTAINABILITY, HEALTH AND PRODUCTIVITY TO ACCELERATE A QUALITY BUILT ENVIRONMENT



48-729 – Sustainability, Health and Productivity to Accelerate a Quality Built Environment

This course explores the relationship of quality buildings, building systems, infrastructures and land-use to productivity, health, well-being and a sustainable environment. The course begins with lectures on high performance enclosure, mechanical, lighting, interior and networked building design decisions and extends to sustainable communities and infrastructures. The course then engages students in exploring the research literature that relates these building design decisions to multiple performance impacts including: energy, carbon, facilities management, organizational change, technological change, attraction/retention (quality of life) of employees, individual productivity, organizational productivity, salvage and waste (the circular economy), tax/ insurance/ litigation, and human health.