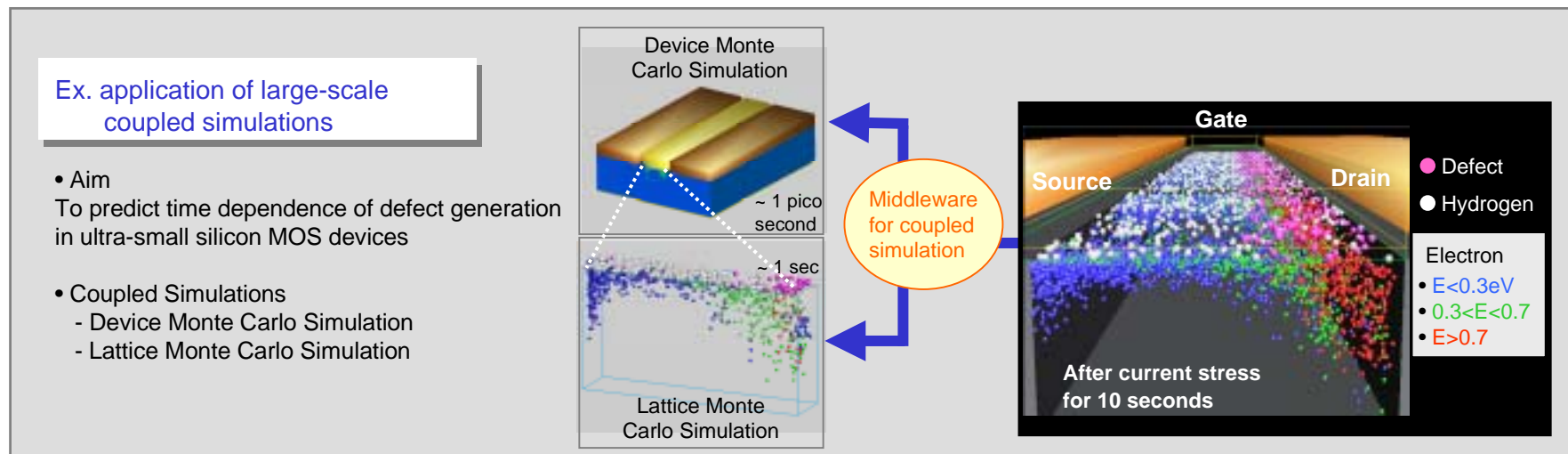


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Development of next-generation large-scale simulation technology for the grid-computing environment

- Coupling scientific/technical programs of varying scales in space and time over networks -



A next-generation large-scale simulation technology was developed which enables various large-scale scientific simulation programs employing different discretized methods to be coupled to each other and executed simultaneously over networks. This technique allows scientific simulation programs of different time and space scales, such as on whole solids, and the atoms and electrons of which they are composed, to be easily combined. This will be key technology in large-scale simulations for the grid-computing environment utilizing advanced programs developed in laboratories worldwide. This technology was developed as part of a Real World Computing (RWC) project of the Ministry of Economy, Trade & Industry, and a Research and Development Applying Computational Science and Technology (ACT) project of the Japan Science and Technology Corporation (JST).