Abstract: Those working within the domain of construction engineering - the planning and management of the construction of infrastructure assets - today employ a wide range of information technology tools. The vast majority of these tools are used on desktop computers processing tabular information associated with scheduling, tracking, statusing, reporting and similar tasks. In spite of the significant penetration of information technology into construction engineering, there is little direct reuse of the engineering information created during the design phase. Likewise, the access to rich engineering information and applications to exploit this information have yet to be extended to mobile workers on the construction job site in any significant way. This paper explores a sampling of some of the emerging information technology tools that may be effectively applied to support construction engineering in the field.