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Fig. 1. The concept of a RBM (Aleshin, 2001)



Fig. 2. A concept model for linking RBS, WBS and BIM



Fig. 3. Framework and data flow of the proposed system



Fig. 4. Basic linked relationship between RBS and BIM (Zou, Kiviniemi and Jones, 2016)



Fig. 5. Linkage between health and safety risks and BIM (Zou, Kiviniemi and Jones, 2016)

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Fig. 6. Means of risk visualisation used in this paper



Fig. 7. User Interface of the prototype tool



Fig. 8. Core components and operation process of the system



Fig. 9. Snapshot of Plugin in Navisworks



Fig. 10. Example of implementing linkage rules



Fig. 11. An example of highlighting risks in BIM



Fig. 12. System implementation workflow

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Fig. 13. Visualising risks in 4D BIM