

Theories for building knowledge networks and markets (Knowledge Networks and Markets in the Life Sciences)

This chapter discusses.. how advances in information technologies are informing the design of knowledge networks and markets (KNMs), drawing heavily on experiences and insights from the ICT sector before applying some of the concepts from that sector to KNMs in biomedicine. The chapter first describes how, theoretically, knowledge markets are structured and function, and how some market failures could be overcome through better mechanism design. The chapter then discusses the importance of interoperability of separate data resources in biomedicine, and how to make these resources more interoperable and useful to many researchers. Finally, the chapter proposes how to apply these theoretical approaches to KNMs design, and to create a framework for understanding real-world examples of KNMs in biomedicine.

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