

ISO 19650-1:2018-12 (E)

Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 1: Concepts and principles

Contents	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
3.1 General terms	1
3.2 Terms related to assets and projects	2
3.3 Terms related to information management	3
4 Asset and project information, perspectives and collaborative working	6
4.1 Principles	6
4.3 Information management perspectives	7
5 Definition of information requirements and resulting information models	8
5.1 Principles	8
5.2 Organizational information requirements (OIR)	10
5.3 Asset information requirements (AIR)	10
5.4 Project information requirements (PIR)	10
5.5 Exchange information requirements (EIR)	10
5.6 Asset information model (AIM)	11
5.7 Project information model (PIM)	11
6 The information delivery cycle	11
6.1 Principles	11
6.2 Alignment with the asset life cycle	11
6.3 Setting information requirements and planning for information delivery	13
6.3.1 General principles	13
6.3.2 Delivery team provides information for asset owner/operator or client decisions	15
6.3.3 Information verification and validation at start and end of project stages	15
6.3.4 Information is drawn from the whole delivery team	16
6.3.5 Summary of information delivery from project and asset delivery teams	17
7 Project and asset information management functions	18
7.1 Principles	18
7.2 Asset information management functions	19
7.3 Project information management functions	19
7.4 Task information management functions	19
8 Delivery team capability and capacity	20
8.1 Principles	20
8.2 Extent of capability and capacity review	20
9 Information container-based collaborative working	20
10 Information delivery planning	21

10.1	Principles	21
10.2	Timing of information delivery	21
10.3	Responsibility matrix	22
10.4	Defining the federation strategy and breakdown structure for information containers	22
11	Managing the collaborative production of information	23
11.1	Principles	23
11.2	Level of information need	23
11.3	Information quality	23
12	Common data environment (CDE) solution and workflow	24
12.1	Principles	24
12.2	The work in progress state	25
12.3	The check/review/approve transition	25
12.4	The shared state	25
12.5	The review/authorize transition	26
12.6	The published state	26
12.7	The archive state	26
Annex A (informative) Illustrations of federation strategies and information container breakdown structures		30
Bibliography		34