

Existing data lifecycles along with their phases and our proposed data lifecycle (DaLiF)

Lifecycle	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
Open Government data lifecycle	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	×	×
Yuri Demchenko's data lifecycle	×	✓	✓	✓	✓	✓	×	✓	✓	✓	×	×	✓	×
Data lifecycle for multistage privacy protection in IoT environment	×	✓	×	✓	×	✓	×	✓	✓	×	×	✓	×	×
IBM data lifecycle	×	✓	✓	✓	×	✓	×	✓	✓	✓	×	✓	✓	✓
Information lifecycle	×	✓	×	×	×	✓	✓	✓	✓	×	×	✓	✓	×
IHRB data lifecycle	×	✓	✓	✓	×	✓	×	×	✓	×	×	×	×	×
Abstract Data Lifecycle Model	✓	✓	✓	×	×	✓	×	✓	✓	×	×	×	✓	✓
COSA-DLC	×	✓	✓	✓	×	✓	×	✓	×	×	✓	✓	✓	×
Energy big data lifecycle	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	✓	✓
Data Lifecycle Model for NSF	×	✓	✓	✓	×	✓	✓	✓	×	×	×	×	✓	×
Data lifecycle cycle for smart cities	×	✓	✓	✓	×	✓	×	✓	✓	×	✓	×	×	✓
lifecycle for OGD	×	✓	×	✓	×	×	×	✓	✓	×	✓	×	×	×
Research Data lifecycle	✓	✓	✓	✓	×	✓	×	✓	✓	×	×	×	×	×
Data lifecycle for industry	×	✓	×	✓	×	✓	×	✓	✓	×	×	×	×	×
Lifecycle for big scholarly data	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	×	×
Data lifecycle	×	✓	✓	✓	×	✓	×	✓	✓	×	✓	×	×	✓

Lifecycle for big healthcare data	×	✓	✓	✓	✓	✓	×	×	×	×	×	×	×	×
Data lifecycle for manufacturing	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	×	×
Security data lifecycle	×	✓	✓	✓	✓	✓	×	×	×	×	×	×	×	×
Data lifecycle for cloud computing	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	✓	✓
Lifecycle for big data analytics for psychologists	✓	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	✓	×
Lifecycle for big data value creation	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	×	×
Data Lifecycle for industrial and healthcare applications	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	✓	✓
Lifecycle for CENS Data	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	×	×
Research data lifecycle	✓	✓	✓	✓	×	✓	✓	✓	✓	×	×	×	✓	×
Scientific Research data lifecycle	✓	✓	✓	✓	✓	✓	✓	×	×	×	×	×	✓	×
Smart data lifecycle	✓	✓	✓	✓	✓	✓	×	×	×	×	✓	✓	✓	✓
Storage data lifecycle	×	✓	✓	×	×	✓	✓	✓	✓	×	×	×	✓	✓
Data lifecycle for smart healthcare	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	×	×
data lifecycle about coal mine industry	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	✓	×	×
Data lifecycle for IoTs	×	✓	✓	✓	×	✓	✓	✓	✓	×	×	×	×	×
Information pyramid of Reynolds and Busby lifecycle	×	✓	✓	✓	×	×	×	✓	×	×	×	×	×	×
SCC-data lifecycle	×	✓	×	✓	×	✓	×	✓	×	×	✓	×	✓	×

Data lifecycle for IoT	✓	✓	✓	✓	×	✓	✓	×	×	×	×	×	✓	×
Big data (privacy) lifecycle	×	✓	×	✓	×	✓	×	×	×	×	×	✓	×	×
USA (NIST) – [big] data lifecycle model	×	✓	✓	✓	✓	×	✓	×	×	×	×	×	×	×
Knowledge lifecycle for e-learning	×	✓	×	✓	✓	×	×	✓	✓	×	×	×	×	×
DataONE lifecycle model	✓	✓	✓	✓	×	×	×	✓	✓	×	✓	×	×	×
lifecycle model for big data management	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	✓	✓	×
Knowledge process-lifecycle	×	✓	×	×	×	×	✓	×	✓	×	×	×	×	×
Hindawi data lifecycle	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	×	×
Data value cycle	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	✓	×
Lifecycle in databases	×	×	×	×	×	✓	×	✓	✓	×	×	×	✓	✓
DDI Lifecycle	×	✓	×	✓	×	✓	×	✓	✓	×	×	×	✓	×
DDC lifecycle	×	✓	✓	✓	×	✓	×	✓	✓	×	✓	×	✓	×
WCM lifecycle	×	✓	×	×	×	✓	×	✓	✓	✓	×	×	✓	×
Data Lifecycle for Telco networks data management	×	✓	✓	✓	×	✓	×	✓	✓	×	×	×	✓	×
USGS lifecycle	✓	✓	✓	✓	×	✓	×	✓	✓	×	✓	×	✓	×
Scientific Data Lifecycle Management (SDLM) Model	✓	✓	✓	✓	×	✓	×	✓	✓	×	×	×	✓	✓
APDLM	✓	✓	×	×	×	×	✓	✓	✓	×	×	×	×	✓

Lifecycle for environmental research data	×	✓	✓	×	×	✓	✓	✓	✓	×	✓	×	✓	×
Data lifecycle for industry	×	✓	✓	✓	✓	✓	✓	✓	×	×	×	×	×	×
Data lifecycle for cloud computing security	×	✓	×	×	×	✓	×	✓	✓	×	×	×	✓	✓
OGD lifecycle	×	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	×	×
IoT data lifecycle	×	✓	✓	✓	×	✓	✓	✓	✓	×	×	×	✓	✓
Lifecycle for organization's security data	×	✓	✓	✓	✓	✓	×	✓	×	×	×	×	×	×
Big data (privacy) lifecycle	×	✓	×	✓	×	✓	×	×	×	×	×	✓	×	×
lifecycle of cloud data	×	✓	×	×	×	✓	×	✓	✓	×	×	✓	✓	✓
Data Lifecycle Process Model	×	✓	✓	✓	×	✓	×	×	×	×	✓	×	✓	×
Data lifecycle for cloud automation tools	×	✓	✓	✓	×	×	×	✓	×	×	×	×	×	×
UKDA	✓	✓	✓	✓	×	✓	✓	×	✓	×	×	×	✓	×
Data Lifecycle for HPC Scientific data perspective	×	✓	✓	×	×	✓	×	✓	✓	×	×	×	×	×
Lifecycle for social and economic data	✓	✓	✓	✓	×	✓	×	✓	✓	×	✓	×	×	×
Research big data lifecycle	✓	✓	✓	✓	✓	✓	×	✓	×	×	×	×	✓	×
CIGREF data	×	✓	✓	✓	×	×	×	×	×	×	✓	×	×	×
CMM for SDM	×	✓	✓	✓	×	✓	×	✓	✓	×	×	✓	×	×
Personal data lifecycle	×	✓	×	✓	×	✓	×	×	✓	×	×	✓	×	×

Data lifecycle for Tobacco industry	×	✓	×	×	×	✓	×	✓	×	×	×	✓	×	✓
Data Lifecycle	×	✓	×	✓	×	×	×	×	×	×	×	✓	×	×
ANDS verbs [130]	×	✓	✓	×	×	✓	✓	✓	✓	×	×	×	✓	×
Research360 Data Lifecycle	✓	✓	×	✓	×	×	×	✓	✓	×	×	×	×	×
Web data lifecycle	✓	✓	✓	×	×	×	×	✓	✓	×	×	×	×	×
PII lifecycle	×	✓	✓	✓	×	✓	✓	✓	✓	×	×	×	✓	✓
IRIS Data Lifecycle	×	✓	✓	✓	×	✓	×	×	×	×	✓	✓	×	×
Data lifecycle for information Science	×	✓	×	×	✓	✓	×	×	×	×	×	×	×	✓
Data lifecycle for VDS	×	✓	✓	✓	×	×	×	✓	✓	×	×	×	×	✓
DaLiF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓