Supply side

Public goods
Gold / Green OA*
OA mandate
OA transformation

Club/Private goods
TA* E-journal
TA database

Common pool resources
Analog library services

Information system

Availability of OA/TA resources

Digital system for search

Strategic roles of librarians

Customers' side

Customers
Scholarly users
Public users 1
(Office, Business, Private)
Public users 2
(Big data, AI, Librarians)

Subject librarians
Multidisciplinary
Health & medicine
Natural sciences
Humanities and arts
Social sciences & others
Engineering

Open Science

Fig. S17. A scholarly information system bridges the supply side to the customers' side. The supply side of scholarly information could be a form of common pool resources (CPR), club/private goods, or public goods depending on the mode of availability. The recognition of public users in addition to scholarly users is important for customers. Subject specialist librarians will meet the demands of users. open access (OA) enables people to become members of open science. TA, toll access.