

**Table S15.** Social sciences and others category

Category	Social sciences and others
Social Sciences general	Eighteen disciplines show similar pattern of OA to other disciplines in social sciences. A total of 359,693 OA articles or 26.3% of total are available. (Suppl. table 12, Suppl. fig 13)
Psychology	Eleven disciplines of this subcategory show medium high acceptance of OA. The number of documents produced in this discipline is not big and these disciplines are related each other. A total of 292,831 OA articles or 31.8% of total are available in 2000-2021. (Suppl. table 13)
Education and Ethics	Five disciplines show similar pattern of OA to other disciplines in social sciences. A total of 162,213 OA articles or 24.9% of total are available. (Suppl. table 14, Suppl. Fig. 10)
Law Economics Management	Eight disciplines are mixture of different subjects. The discipline economics shows higher rate of OA (31.9% in 2000-2021, 44.3% in 2021) and law, business and management subjects are lower in OA. A total of 432,027 OA articles or 23.8% of total are not big numbers but the available resources are increasing. (Suppl. table 15, Fig. 5, Suppl. figs. 11,12,14)
OA trends	The OA trends of social sciences, law, economics and management are relatively low and average in 2000-2021 was 23.8%. The recent data is increasing (36.2%).
Library service plans	Library services on scholarly documents on the social science is not very popular and peoples' demand is not evident. Subject specialist librarians will help users on these subjects. Someone in need may be those in international business or those in juridical process and public services will be considered for them.

General summary of four subcategories and their open access trends and possible plans for library services