

# Collecting Secondary Data and information

Exercise

E1

E1

## Finding Data and Information

- ▶ What kind of data and information I need for my Topic?
- ▶ Where can I find needed data and information?
- ▶ How can I check the data and information?
- ▶ How can I analyze and use the information?

E1

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## Working with data

- ▶ Collecting data
- ▶ Data manipulating with Spreadsheet
- ▶ [ec.europa.eu/eurostat/](http://ec.europa.eu/eurostat/)
- ▶ Download data for population

E1

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## Working with data

[ec.europa.eu/eurostat/](http://ec.europa.eu/eurostat/)

Download data:

total population ->Select Data

- ▶ Geo Bulgaria and Romania
- ▶ Time 2000-2010
- ▶ Age - age groups (Total)
- ▶ Sex - Male and Female

Update

Download

E1

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Collecting data

ec.europa.eu/eurostat/

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Release calendar

LOOKING FOR INFORMATION ON A

General and regional statistics

Industry, trade and services

Economy and finance

Agriculture and fisheries

Population and social conditions

International trade

DATA

- > Database
- > Browse statistics by theme
- > Statistics A - Z
- > Population Census 2011
- > Bulk download
- > Web Services
- > Access to microdata
- > GISCO: Geographical Information and maps
- > Metadata
- > Statistical Data and Metadata eXchange (SDMX)
- > Data validation

Most popular tables

Key figures

Employment rate At risk of social ex

2014, EU 2014

69.2% 24.1%

Collecting data

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European Commission > Eurostat > Data > Database

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DATA DATABASE

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- Statistics A - Z
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- Web Services
  - SDMX Web Services
  - Json and Unicode Web Services
- Access to microdata
- GISCO Geographical Information and maps
- Metadata
  - Euro-SDMX Metadata Structure (ESMS)
  - Classifications
  - Legislation and methodology
  - Concepts and definitions
  - Glossaries and thesauri
  - National methodologies
  - Standard code lists
  - Statistical Data and Metadata eXchange (SDMX)

DATA NAVIGATION TREE

- Database by themes
  - General and regional statistics
  - Economy and finance
  - Population and social conditions
  - Industry, trade and services
  - Agriculture, forestry and fisheries
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[Access to microdata](#)

[GISCO: Geographical Information and maps](#)

[- Metadata](#)

[Euro SDMX Metadata Structure \(ESMS\)](#)

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[Legislation and methodology](#)

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[National methodologies](#)

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[Statistical Data and Metadata eXchange \(SDMX\)](#)

[Data Navigation Tree](#)

- Database by themes
  - General and regional statistics
  - Economy and finance
  - Population and social conditions
    - Demography and migration (pop)
      - Population change - Demographic balance and crude rates at national level (demo\_gind) [M](#) [I](#)
      - Population change - Demographic balance and crude rates at regional level (NUTS 3) (demo\_r\_gind3) [M](#) [I](#)
      - Population (demo\_pop) [M](#)
        - Population on 1 January by age and sex (demo\_pjan) [I](#)
        - Population on 1 January by five years age group and sex (demo\_pjangroup) [I](#)
        - Population on 1 January by broad age group and sex (demo\_pjanbroad) [I](#)
        - Population on 1 January by age, sex and educational attainment (demo\_pjanedu) [I](#)
        - Population on 1 January by age, sex and legal marital status (demo\_pjanmarsta) [I](#)
        - Population on 1 January by age, sex and broad group of citizenship (migr\_pop2ctz) [M](#) [I](#)
        - Population on 1 January by five year age group, sex and citizenship (migr\_pop1ctz) [M](#) [I](#)
        - Population on 1 January by five year age group, sex and country of birth (migr\_pop3ctb) [M](#) [I](#)
        - Population on 1 January by age, sex and broad group of country of birth (migr\_pop4ctb) [M](#) [I](#)
        - Population on 1 January by sex, citizenship and broad group of country of birth (migr\_pop5ctz) [M](#) [I](#)
        - Population on 1 January by sex, country of birth and broad group of citizenship (migr\_pop6ctb) [M](#) [I](#)
        - Usually resident population on 1 January (demo\_urespop) [M](#) [I](#)
        - Population: Structure indicators (demo\_pjanind) [I](#)
    - Regional data (demopreg) [M](#)
    - Fertility (demo\_fer) [M](#)
    - Mortality (demo\_mor) [M](#)

Eurostat - Data Explorer - Google Chrome  
 appsso.eurostat.ec.europa.eu/nu/show.do

[Exploratory texts \(metadata\)](#) | [Information](#)

### Population on 1 January by age and sex

Last update: 26-10-2015

Table Customisation [Show](#)

TIME:  Age class:

GEO:  TIME:

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>European Union (28 countries)</b>	494,598,322	496,436,597	498,300,775	500,297,033	502,090,235	503,170,618 <sup>(R)</sup>	504,494,374 <sup>(R)</sup>	505,576,188 <sup>(R)</sup>	506,624,042 <sup>(R)</sup>	506,847,612 <sup>(R)(M)</sup>
<b>European Union (27 countries)</b>	490,207,461	492,124,110	493,987,245	495,985,066	497,780,439 <sup>(R)</sup>	498,867,771	500,204,517 <sup>(R)</sup>	501,300,204 <sup>(R)</sup>	502,361,902 <sup>(R)</sup>	502,600,003 <sup>(R)(M)</sup>
<b>Euro area (18 countries)</b>	320,141,448	329,684,939	331,204,579	333,066,775	334,470,355	335,266,624	336,102,126 <sup>(R)</sup>	336,817,148 <sup>(R)</sup>	337,506,000 <sup>(R)</sup>	337,419,219 <sup>(R)(M)</sup>
<b>Euro area (18 countries)</b>	324,786,228	326,395,103	327,954,596	329,684,170	331,286,399	332,124,448	333,049,538 <sup>(R)</sup>	333,813,507 <sup>(R)</sup>	334,534,095 <sup>(R)</sup>	334,476,343 <sup>(R)(M)</sup>
<b>Belgium</b>	10,445,892	10,511,382	10,584,534	10,666,866	10,753,080	10,839,905	11,000,639 <sup>(R)</sup>	11,094,850	11,161,642	11,203,992
<b>Bulgaria</b>	7,650,573	7,629,371	7,572,673	7,516,002	7,467,119	7,421,766	7,380,491	7,327,224	7,284,552	7,245,977
<b>Czech Republic</b>	10,198,855	10,223,577	10,254,233	10,343,422	10,425,783	10,462,080	10,486,731	10,505,445	10,516,125	10,512,419
<b>Denmark</b>	5,411,405	5,427,459	5,447,084	5,475,791	5,511,451	5,534,738	5,560,628	5,589,516	5,602,628	5,627,235
<b>Germany (until 1990 former G)</b>	82,500,849	82,437,995	82,314,906	82,217,837	82,002,356	81,802,257	81,751,602	81,841,743	82,028,578	80,787,843
<b>Germany (including former G)</b>	82,500,849	82,437,995	82,314,906	82,217,837	82,002,356	81,802,257	81,751,602	81,841,743	82,028,578	80,787,843
<b>Estonia</b>	1,358,850	1,350,700	1,342,920	1,338,440	1,335,740	1,333,290	1,329,660	1,323,217	1,320,174	1,315,819
<b>Ireland</b>	4,113,672	4,208,156	4,340,118	4,457,765	4,521,322	4,549,428	4,570,881	4,582,707	4,591,087	4,605,501 <sup>(R)</sup>
<b>Greece</b>	10,969,912	11,008,716	11,038,008	11,060,937	11,094,745	11,119,289	11,123,392	11,098,496	11,003,618	10,936,807
<b>Spain</b>	43,296,380	44,009,971	44,784,666	45,668,939	46,239,273	46,486,619	46,667,174	46,818,219	46,727,890	46,512,199
<b>France (metropolitan)</b>	62,772,870	63,229,635	63,645,065	64,007,193	64,350,226	64,628,856	64,978,721	65,276,983 <sup>(R)</sup>	65,560,721 <sup>(R)</sup>	65,835,579 <sup>(R)</sup>
<b>France (metropolitan)</b>	60,963,264	61,399,793	61,795,238	62,134,866	62,465,709	62,785,235	63,070,344	63,375,973	63,622,034	63,822,034
<b>Croatia</b>	4,310,861	4,312,487	4,313,530	4,311,967	4,309,796	4,302,847	4,289,857	4,275,964	4,262,140	4,246,809
<b>Italy</b>	57,874,753	58,064,214	58,223,744	58,632,875	59,000,586	59,190,143	59,364,690	59,394,207	59,685,227	60,782,668
<b>Cyprus</b>	733,067	744,023	757,916	776,333	796,330	823,140	839,751	862,011	865,878	858,000
<b>Latvia</b>	2,249,724	2,227,874	2,208,940	2,191,810	2,162,834	2,120,504	2,074,605	2,040,813	2,023,823	2,001,468
<b>Lithuania</b>	3,355,220	3,289,835	3,249,983	3,212,605	3,183,856	3,141,976	3,052,588	3,003,641	2,971,905	2,943,472
<b>Luxembourg</b>	462,230	469,086	476,187	483,799	493,500	502,066	512,040	524,833 <sup>(R)</sup>	537,029	549,680
<b>Hungary</b>	10,097,549	10,076,581	10,066,150	10,045,401	10,030,975	10,014,324	9,985,722	9,931,923 <sup>(R)</sup>	9,908,790	9,877,365
<b>Malta</b>	402,668	404,999	405,616	407,832	410,926	414,027	414,989	417,546	421,364	425,384
<b>Netherlands</b>	16,305,526	16,324,210	16,357,992	16,405,399	16,465,787	16,574,989	16,655,799	16,730,348	16,779,573	16,829,289
<b>Austria</b>	8,203,339	8,254,288	8,262,864	8,307,989	8,335,003	8,351,643	8,375,144	8,400,123	8,451,860	8,506,899
<b>Poland</b>	38,173,835	38,157,055	38,123,479	38,115,641	38,135,876 <sup>(R)</sup>	38,022,849	38,062,718	38,064,792	38,062,533	38,017,856
<b>Portugal</b>	10,494,672	10,511,988	10,532,588	10,553,339	10,568,014	10,573,479	10,572,721	10,542,398	10,487,289	10,427,301 <sup>(R)</sup>
<b>Romania</b>	21,382,354	21,297,016	21,195,933	20,929,460	20,640,390	20,294,683	20,199,609	20,095,996	20,020,074	19,947,311 <sup>(R)</sup>
<b>Slovenia</b>	1,997,590	2,003,358	2,010,377	2,010,269 <sup>(R)</sup>	2,032,362	2,046,976	2,050,189	2,055,496	2,058,821	2,061,005
<b>Slovakia</b>	5,372,685	5,372,928	5,373,180	5,376,064	5,392,401	5,390,410	5,392,446	5,404,322	5,410,836	5,415,949
<b>Finland</b>	5,236,611	5,255,960	5,276,955	5,300,484	5,326,314	5,351,627	5,375,276	5,401,267	5,426,674	5,452,370
<b>Sweden</b>	9,011,392	9,047,752	9,113,257	9,182,927	9,256,347	9,340,682	9,415,570	9,482,855	9,555,993	9,644,664
<b>United Kingdom</b>	60,182,000	60,620,361	61,073,279	61,571,647	62,042,343	62,510,197	63,022,592	63,495,303	63,905,297	64,308,261 <sup>(R)(M)</sup>
<b>European Economic Area (EU)</b>	495,521,862	501,411,612	503,224,749	505,305,019	507,244,444	508,302,341 <sup>(R)</sup>	509,769,200 <sup>(R)</sup>	510,815,105 <sup>(R)</sup>	512,004,012 <sup>(R)</sup>	512,218,382 <sup>(R)(M)</sup>
<b>European Economic Area (EU)</b>	495,222,001	497,099,125	499,011,219	501,073,052	502,934,648 <sup>(R)</sup>	504,079,494	505,479,423 <sup>(R)</sup>	506,642,124 <sup>(R)</sup>	507,771,872 <sup>(R)</sup>	508,071,373 <sup>(R)(M)</sup>
<b>European Free Trade Associati</b>	12,349,642	12,454,143	12,532,713	12,681,480	12,856,065	12,997,519	13,145,040 <sup>(R)</sup>	13,296,582	13,449,030	13,610,401
<b>Iceland</b>	293,977	299,891	307,672	315,459	319,368	317,630	316,452	315,373	321,887	325,871
<b>Liechtenstein</b>	34,600	34,905	35,165	35,356	35,589	35,894	36,149	36,475	36,830	37,129
<b>Norway</b>	4,606,363	4,640,219	4,691,134	4,737,171	4,799,252	4,858,199	4,920,305	4,989,870	5,051,275	5,107,970

## Population in BG

Population on 1 January by five years age group and sex (demo\_plangroup)

Last update: 21-10-2015  
Interactive extraction size limit: 700000  
Current extraction size: 130  
Dimension reduction: 37%

Filtering:  Text  Code range  Pattern  Rule based

Select all	Code	Label
<input type="checkbox"/>	BE	Belgium
<input checked="" type="checkbox"/>	BG	Bulgaria
<input type="checkbox"/>	CZ	Czech Republic
<input type="checkbox"/>	DK	Denmark
<input type="checkbox"/>	DE	Germany (until 1990 former territory of the FRG)
<input type="checkbox"/>	DE_NDF	Germany (including former GDR)
<input type="checkbox"/>	EE	Estonia
<input type="checkbox"/>	IE	Ireland
<input type="checkbox"/>	PL	Poland
<input type="checkbox"/>	ES	Spain
<input type="checkbox"/>	FR	France
<input type="checkbox"/>	PT	France (Metropolitan)
<input type="checkbox"/>	HR	Croatia

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## Population in BG

Population on 1 January by five years age group and sex (demo\_plangroup)

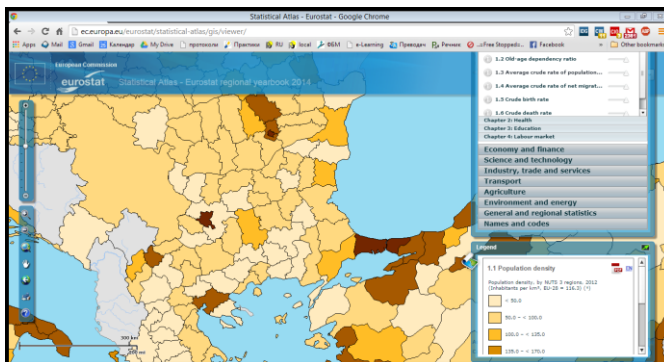
Last update: 21-10-2015  
Interactive extraction size limit: 700000  
Current extraction size: 360  
Dimension reduction: 47%

Filtering:  Text  Code range  Pattern

Select all	Code	Label
<input type="checkbox"/>	TOTL	Total
<input type="checkbox"/>	V_15	Less than 5 years
<input type="checkbox"/>	V1-4	From 5 to 9 years
<input type="checkbox"/>	V10-14	From 10 to 14 years
<input checked="" type="checkbox"/>	V15-19	From 15 to 19 years
<input type="checkbox"/>	V20-24	From 20 to 24 years
<input type="checkbox"/>	V25-29	From 25 to 29 years
<input type="checkbox"/>	V30-34	From 30 to 34 years
<input type="checkbox"/>	V35-39	From 35 to 39 years
<input type="checkbox"/>	V40-44	From 40 to 44 years
<input type="checkbox"/>	V45-49	From 45 to 49 years
<input type="checkbox"/>	V50-54	From 50 to 54 years
<input type="checkbox"/>	V55-59	From 55 to 59 years

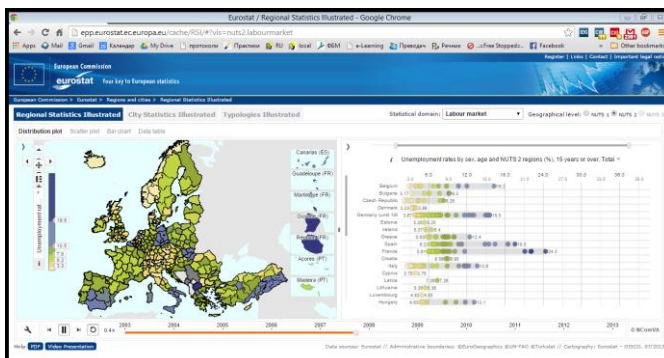
E1

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E1

11



E1

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Download the information in Excel file:

Population in your country for period of 10 years:

- ▶ [ec.europa.eu/eurostat/](http://ec.europa.eu/eurostat/)
- ▶ [www.nsi.bg](http://www.nsi.bg) Bulgaria
- ▶ [www.stat.gov.mk](http://www.stat.gov.mk) Macedonia
- ▶ [www.inssee.ro](http://www.inssee.ro) Romania
- ▶ [www.destatis.de](http://www.destatis.de) - Germany
- ▶ [www.instat.gov.al](http://www.instat.gov.al) Albania
- ▶ <http://www.sok-kosovo.org/main.htm> Kosovo

E1

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## Data manipulating

- ▶ Creating of copy of a sheet with data for males, females and total.
- ▶ Rearranging of the table by criteria State names (ordered by time).
- ▶ Creating of 3D diagram with data.
- ▶ Creating of linear diagram with data of population changes in time.
- ▶ Creating of diagram for comparison between males and females numbers.

E1

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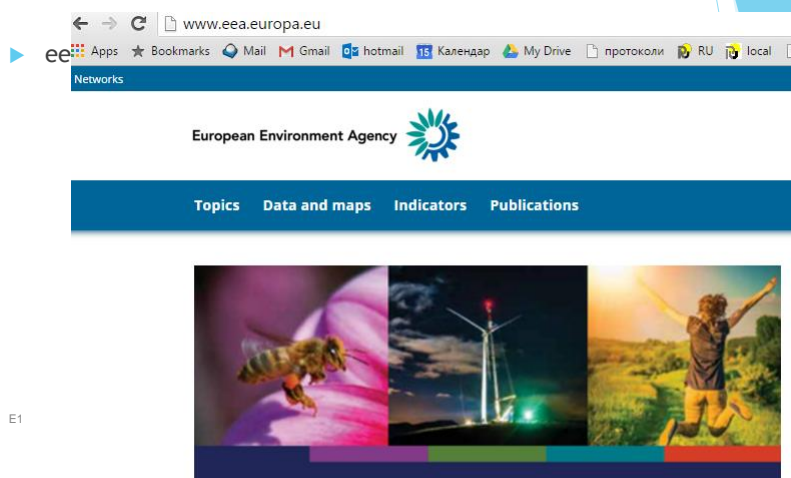
## Data manipulating

- ▶ Creating a prediction for the next 5 years.
- ▶ Generating a sample from labor force and calculating the percentage of labor force from the population
- ▶ Creating a common table for comparison of population between different nations in %.

E1

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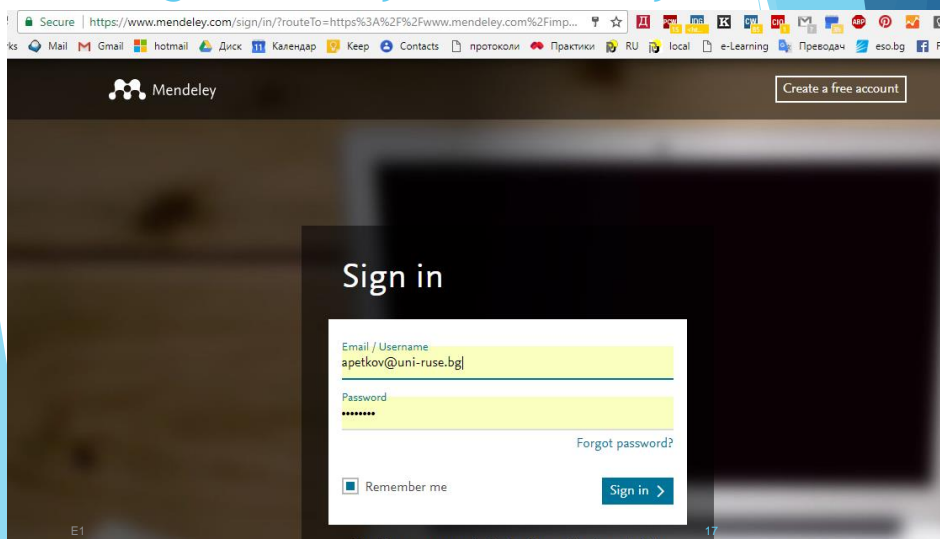
## European Environment Agency



E1

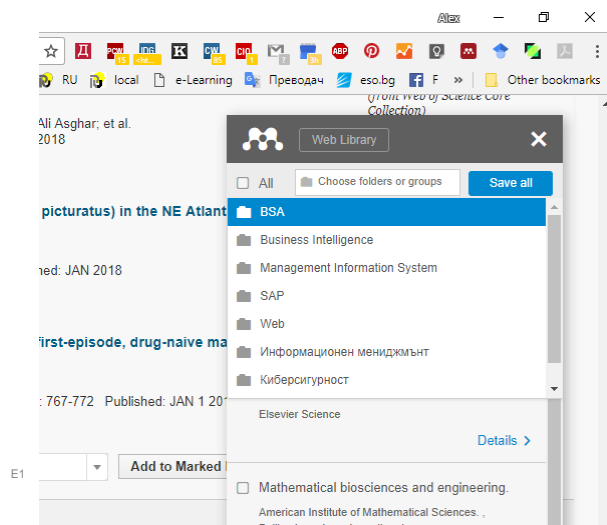


## Using Mendeley Web Library

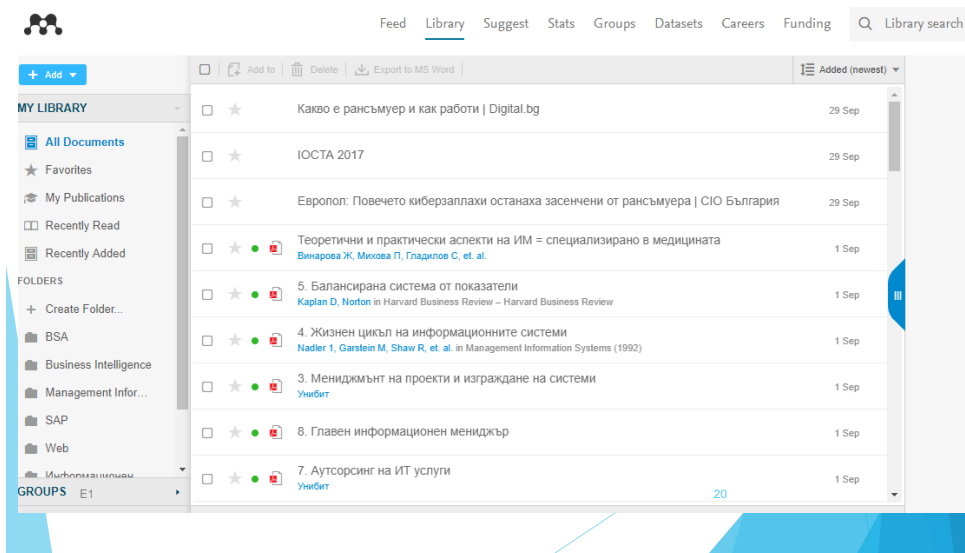


## Using Mendeley Web Library

## Using Mendeley Web Library



## Using Mendeley Web Library



## Using Mendeley Web Library

The screenshot displays the Mendeley Web Library interface. On the left, there is a sidebar with a navigation menu including 'MY LIBRARY', 'My Publications', 'Recently Read', 'Recently Added', 'OLDERS', 'Create Folder...', 'BSA', 'Business Intellige...', 'Management Infor...', 'SAP', 'Web', 'Информационен ...', 'Киберсигурност', 'Системи за оценк...', 'GROUPS', and 'RASH'. The main area shows a list of 10 items, each with a checkbox, a star icon, a document icon, and a date. The items are:

Item	Date
Intelligence and Environmental Complexity Simandan D	23 Jan
Business Intelligence during times of crisis: Adoption and usage of ERP systems by SMEs Assistant Professor T in Procedia - Social and Behavioral Sciences (2015)	11 Jan
Possibilities of Usage of Strategic Business Intelligence systems Based on Databases in Agil... Uçaktürk A, Uçaktürk T, Yavuz H in Procedia - Social and Behavioral Sciences (2015)	11 Jan
Using or Not Using Business Intelligence and Big Data for Strategic Management: An Empiri... Silahtaroğlu G, Alayoglu N in Procedia - Social and Behavioral Sciences (2016)	11 Jan
Technology Acceptance Model for Business Intelligence Systems: Preliminary Research Bach M, Čeljo A, Zoroja J in Procedia - Procedia Computer Science (2016)	11 Jan
The implications of Big Data analytics on Business Intelligence: A qualitative study in China Ram J, Zhang C, Koronios A in Procedia - Procedia Computer Science (2016)	11 Jan
Towards business intelligence systems success: Effects of maturity and culture on analytical ... Popović A, Hackney R, Coelho P, et. al. in Decision Support Systems (2012)	11 Jan
The Role of Information Behaviors and Values in Strategic Information Systems Utilization: a... Popović A, Hackney R, Jakšić J	11 Jan
Association for Information Systems AIS Electronic Library (AISeL) The Maturing of a Busine... Dinter B (2012)	11 Jan

At the bottom of the interface, there is a status bar showing 'RASH E1', '21', and '1 to 17 of 17'.