6th CARNet Users Conference

In search of new models of scientific communication in electronic environment: case of scientists in the field of social sciences in Croatia

Radovan Vrana, PhD

Department of information sciences Faculty of philosophy, University of Zagreb rvrana@ffzg.hr



Introduction

Introduction



- Science dynamical system constant interaction of its components
- Scientists in Croatia more dependent on IT for daily work than ever
- Improvement of scientific communication by use of IT
- Shift of scientific communication paradigm from communication based on printed publications towards communication based on electronic publications
- Evidence of improvement? Research!
 - Details about user needs, behavior in electronic environment and preferences necessary for the development of tools and services (e.g. in digital libraries)

Science and modern inf. resources



- Digital material scientists use in various forms
 - ...represents knowledge which production is heavily dependent on the use of information and communication technologies in the process of research
 - ...is dependent on sources of data and information that are accessed through the use of this information and communication technology

Research

Research



- 5 Croatian universities (Zagreb, Rijeka, Split, Zadar, Osijek), 16 faculties in the field of social sciences in Croatia
- Research and teaching staff (all academic positions)
- Geographically scattered sample
 - different availability of resources
 - different use of IT
 - different information needs...

Research

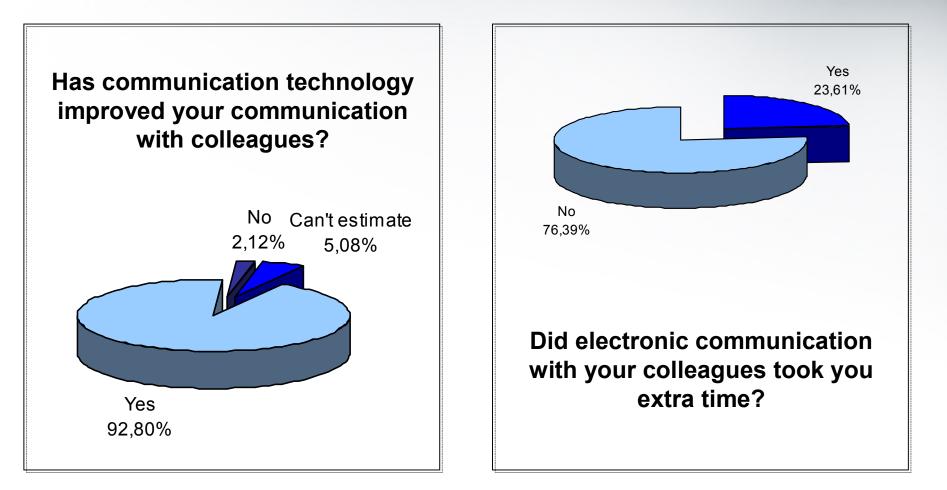


- Survey
 - 35 questions
 - Divided in three parts:
 - Scientific communication and new technologies
 - Information resources for research and teaching
 - Publishing + scientists' attitudes and expectations about the future of their work and use of electronic information resources in general (and (future) digital libraries – implicitly)

Results (a selection of)

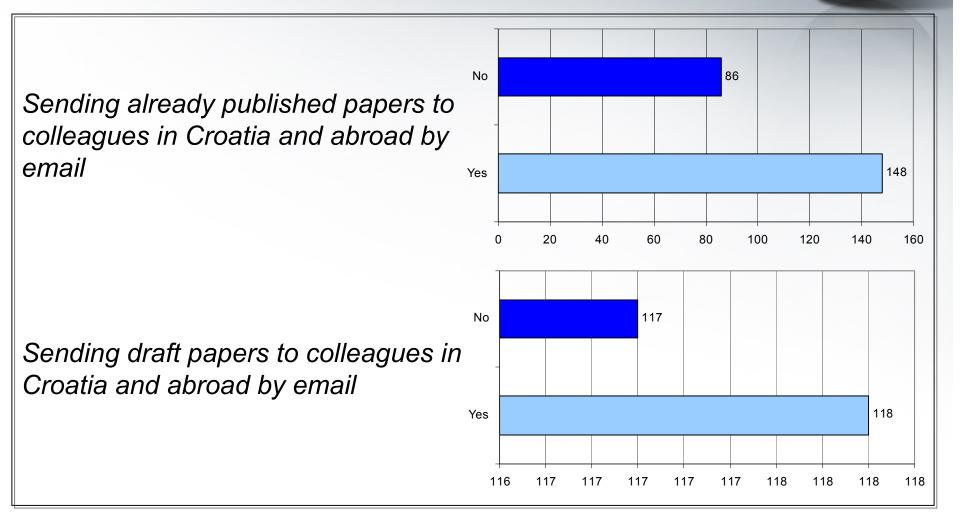
Electronic communication

-> 96,19% of the respondents communicate with their colleagues in Croatia and abroad by e-mail

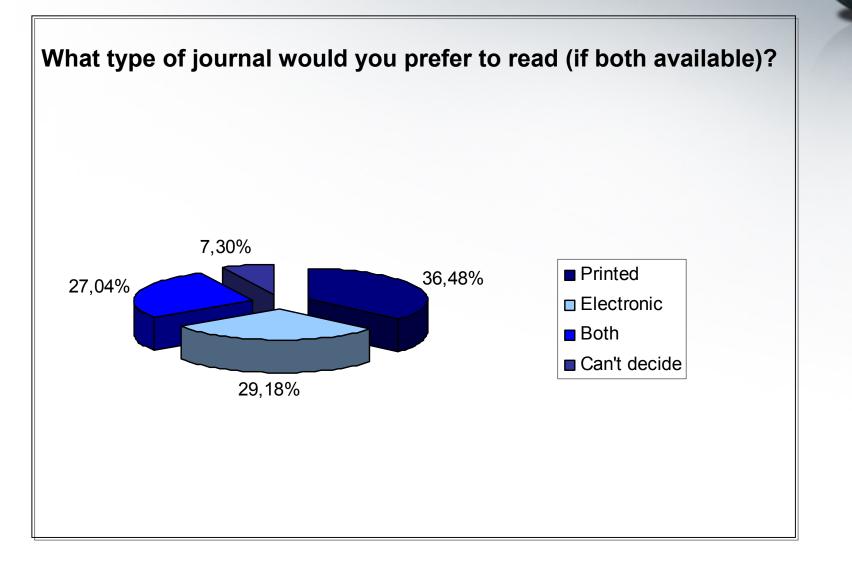


Interaction with other scientists





Preferred type of journals (reading)



Preferred types of journals: reasons



• Printed:

reading habit, reading on any location, reliability (unchangeable), ability to underline, cheaper, appropriate for citing, computer unrelated

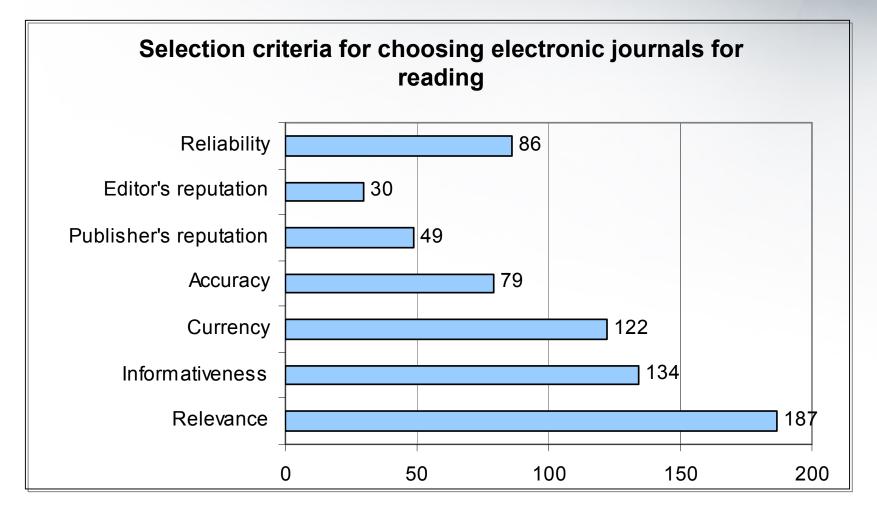
• Electronic:

practical use, larger quantity of quality journals, ability to search, availability, cheaper than printed journals, easy storage (in computer), less storage space

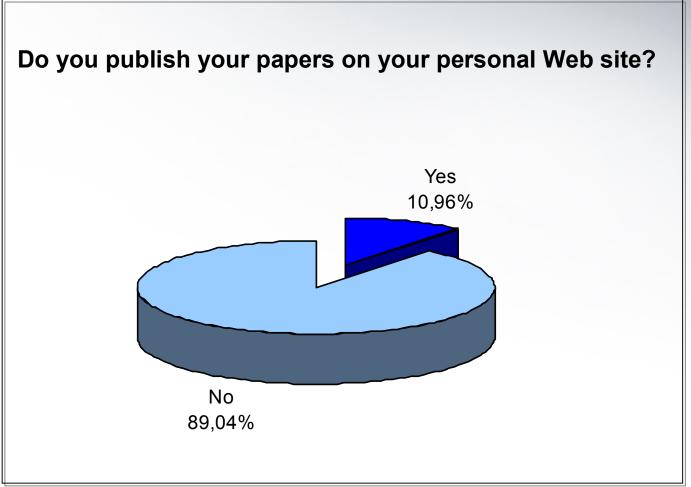
El. journals selection criteria



-> 54,78% of the respondents estimate that using electronic resources saved them time significantly

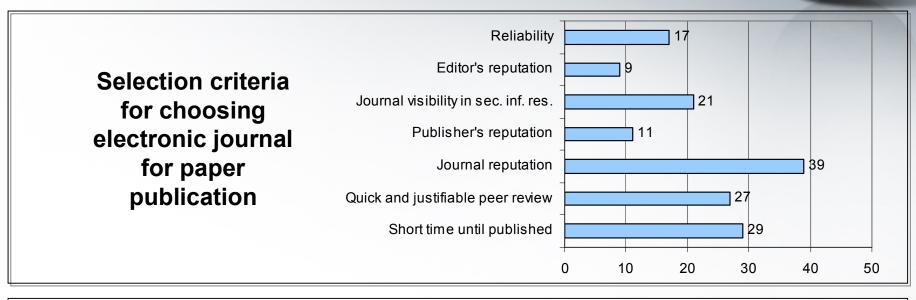


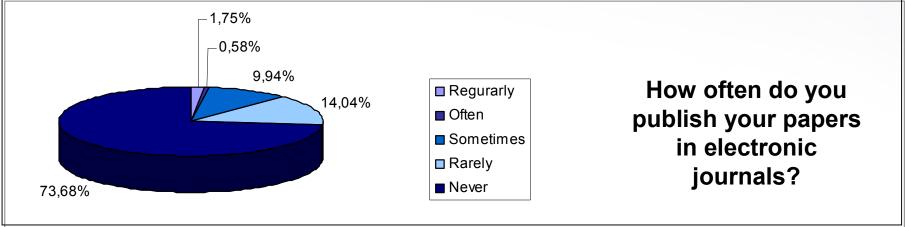
Publishing on Web



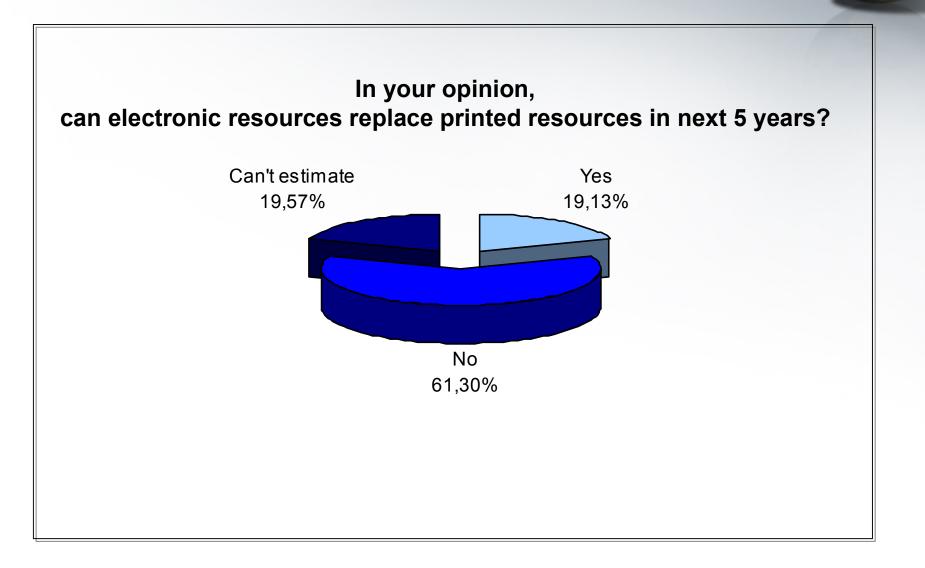


Publishing in electronic journals





Future





- Scientists in the field of social sciences use electronic environment for interaction with other colleagues for exchange of ideas, presentation of research data, opinions, draft papers etc.
- Preparations for the communication paradigm shift
- New world initiatives: Open Archive Initiative, digital libraries of scientific works etc.
- Motives for use of electronic resources?



- IT cause and means for change
- Need for more published papers in electronic publications – a critical mass for true paradigm shift + criteria for evaluation of electronic resources
- Hesitation towards publishing in electronic form



- Now: Pre-conditions for larger dissemination of information in electronic form
- Understanding user needs and preferences necessary for development of future digital libraries in Croatia
- More research needed good basis for new projects