

# Open Science: implementations in Poland

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UNIVERSITY OF WARSAW  
Interdisciplinary Centre for Mathematical  
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[www.icm.edu.pl](http://www.icm.edu.pl)

# Foundations

- Open Access: governmental strategy document, October 2015
- Academic community: Bottom-up initiatives
- National e-Infrastructure for Academic and Research Institutions
- Integration of networked services, Data and High-Performance Computing
- Integrated platform for access to publications
- National Computational Campus



# e-Infrastructure: access to scientific literature and scholarly publishing

- Virtual Library of Science
- Infona: integrated e-infrastructure
- CeON: Center for Open Science



# Core strategy: unlimited access to publications for academic and research institutions

- Virtual Library of Science program (since 1997)
- appr. 1200 institutions included
  - Full collections of key publishers (ELS, Springer Nature, Wiley, AAAS, APS, ACS, IEEE, ... )
  - Journals, e-books,
  - Text and data mining rights
- Download rates p.a.:
  - ~9M for journals, 4M+ for e-books (2015)
- Databases:
  - WoK, Scopus
  - Reaxys, ...



# Virtual Library of Science, principles

- Single funding source (100%)
- Perpetual licensing
- IP-based institutional access rights incl. VPNs
- Content and data on local server in Poland
- Infona: own access software platform (search, indexing, analytics)
- System integration with aggregated Polish scholarly publications repositories
- National Open Publishing initiative:
  - Since 2009: Springer's Open Choice available unlimited at no individual cost to **all** Polish scholars



# Virtual Library of Science, set-up

- **ICM, University of Warsaw:**
  - **Single national coordinator&operator** (since 1997)
  - All contractual responsibilities
  - Delegation of the Ministry for Science and Higher Education
  - Central funding
  - Program extended of Consortia
- <http://wbn.edu.pl/>



# CeON (Center for Open Science): Open science platforms and services

- Library of Science (<http://bibliotekanauki.ceon.pl>)
- CeON Repository (<http://repozytorium.ceon.pl>)
- Repository for Open Data RepOD (<https://repod.pon.edu.pl>)
- Open the Book (<http://otworzksiazke.ceon.pl>)
- CeON Aggregator (<http://agregator.ceon.pl>)
- Institutional collections
- 8K+ deposited items, 3M downloads a year
- OpenAIRE node and compliant
- Includes CeON aggregator:
  - a single point of access to Polish OA repositories
  - 19 repositories and 80K+ publications



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# ICM, few facts:

- founded in 1993, as a centre for:
  - HPC infrastructure: operations and development programs on national scale
  - National research information infrastructure
  - research in computational and information sciences
- one of key institutions contributing to the national research ICT infrastructure development in Poland
- ICM has set up:
  - national academic applications software system (1996)
  - national w3caching program (1996)
  - national research database accessibility (1997)
  - open-access multi-scale numerical weather prediction system (1997)
  - a group of leading-edge experimental labs (2005), extended into a university centre for new technology (2012)and also
  - annual festivals of science (from 1997)
- <http://www.icm.edu.pl/>



# Some of ICM's contributions to large research infrastructures and their development

- National virtual library of science (1997): content, software system
- National academic information infrastructure: INFONA system
- Polish Research Bibliography and Polish Citation Index
- EU: DRIVER and OpenAIRE open repository infrastructures
- EU: EuDML (European Digital Mathematics Library)
- EU: UNICORE – grid infrastructure (security functionalities)
- FOSTER (Facilitate Open Science Training for European Research): European-wide training programme on open science

