

AGENCIES FOR RESEARCH FUNDING IN SCIENCE AND ENGINEERING

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OUTLINE OF PRESENTATION

- ✓ Introduction
- ✓ Research funding application: how?
- ✓ Ten essential tips – *ab initio*
- ✓ Institution hosted funding database
- ✓ Funding agencies: organization
- ✓ Funding agencies: Europe
- ✓ Funding agencies: Individuals
- ✓ Know the statistics – Funders' budget
- ✓ Zoom-in on the subject budget

INTRODUCTION

What is Research?

- ✘ Research is a process of systematic inquiry that entails collection of data; documentation of critical information; and analysis and interpretation of that data/information, in accordance with suitable methodologies set by specific professional fields and academic disciplines (HCC, 2018).
- ✘ Research is defined as the creation of new knowledge and/or the use of existing knowledge in a new and creative way so as to generate new concepts, methodologies and understandings (DET, 2018).

RESEARCH FUNDING APPLICATION: HOW?

- ✘ Become familiar with grant writing early on
- ✘ Decide what you most need the money for
- ✘ Signpost your applications according to rigour, value for money, impact, scientific interest
- ✘ Talk to colleagues who have applied to the same organisation
- ✘ Stay focused and avoid jargon
- ✘ Talk over your interdisciplinary proposal with your partner
- ✘ Don't be afraid to ask questions
- ✘ Ask people outside of academia to read your application
- ✘ If you get rejected, try try again



10 ESSENTIAL TIPS – AB INITIO



INSTITUTION HOSTED FUNDING DATABASE

- ✘ Canadian Institutes of Health Research (CIHR) - Funded Research Database
- ✘ Community of Science (COS) - Funding Opportunities Database
- ✘ Government of Canada Funding Database for International Science and Tech.
- ✘ International Researchers in Germany
- ✘ Monash University, Australia - International Funding Opportunities Database
- ✘ University of Toronto - Funding Opportunities Database
- ✘ US Department of Energy Grants & Financial Assistance Database
- ✘ US Department of Health and Human Services
- ✘ National Science Foundation Index of Funding Opportunities



FUNDING AGENCIES: ORGANIZATION

- ✘ Germany Academic Exchange Service (DAAD)
- ✘ National Institute of Health (NIH)
- ✘ National Science Foundation (NSF)
- ✘ National Research Foundation (NRF)
- ✘ MERCK Research Grants
- ✘ Carnegie Corporation
- ✘ Sponsored Programs Information Network (SPIN)**
- ✘ The Fulbright Program – Junior and Senior
- ✘ The World Academy of Science (TWAS)
- ✘ Natural Sciences and Engineering Research Council
- ✘ International Foundation for Science (IFS)



FUNDING AGENCIES: EUROPE

- ✘ Academy of Finland - Academy Research Fellow
- ✘ Alexander von Humboldt Foundation, Germany
- ✘ British Federation Crosby Hall Fellowship
- ✘ Community Research and Development Information Service (CORDIS)
- ✘ European Commission - Academic Resources, Fellowships & Grants
- ✘ European Molecular Biology Organization (EMBO) – Long Term Fellowships
- ✘ European Molecular Biology Organization (EMBO) – Short Term Fellowship
- ✘ European Research Council - Grants
- ✘ European Union - Grants
- ✘ French Ministry of Foreign Affairs - Chateaubriand Scholarship: Visiting Fellowships for Young
- ✘ Postdoctoral Researchers
- ✘ French Ministry of Foreign Affairs - Lavoisier Grants
- ✘ French Ministry of Foreign Affairs - Research Scholarships

FUNDING AGENCIES: INDIVIDUALS

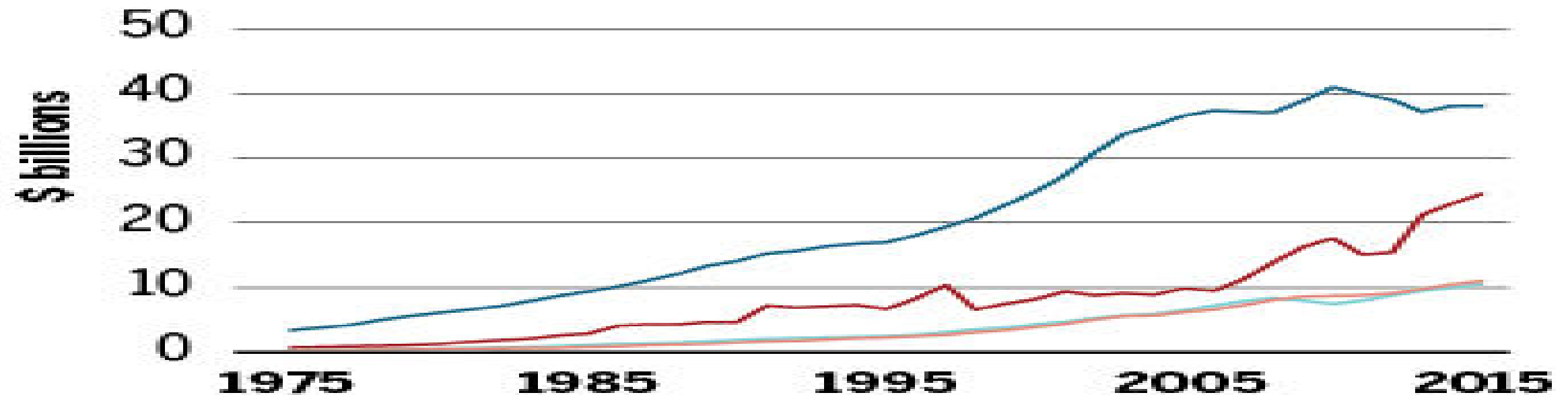
- ✘ MacArthur Foundation Grants
- ✘ Bill and Melinda Gate Foundation Grants
- ✘ The Rockefeller Foundation Grant
- ✘ Graham Foundation Grants (Architecture)
- ✘ Baxter International Grants
- ✘ Chiang Ching-kuo Foundation
- ✘ Biodiversity International Fellowship Program
- ✘ Brocher Foundation Residencies

KNOW THE STATISTICS – FUNDERS’ BUDGET

A basic shift

Federal agencies provided less than half of U.S. basic science funding in 2015, a result of stagnant budgets and rising investment by industry, universities, and philanthropies.

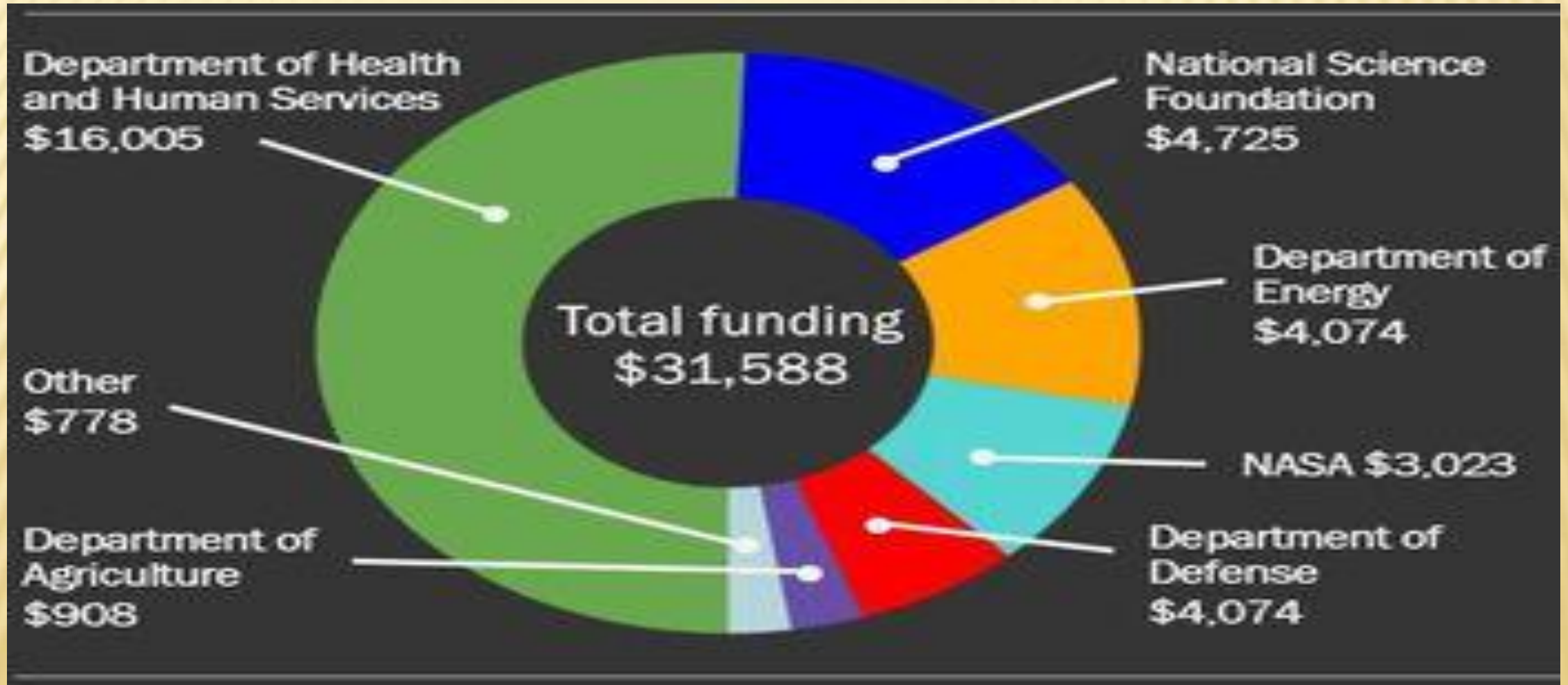
■ Federal ■ Corporate ■ University ■ Philanthropy



Graphic: D. Malakoff/Science

Data: National Science Foundation

ZOOM-IN ON THE SUBJECT BUDGET



SELECTED REFERENCES

- ✘ Hampshire College Collaborators: HCC (2018). What is research? Available online at: <https://www.hampshire.edu/dof/what-is-research>
- ✘ Department of Education and Training: DET (2018): Research and data. Available online at: <https://www.education.gov.au/research-2>
- ✘ Bossenmeyer, Z. (2018). Ten tips to getting your school grant funded. Available online at: <https://peacefulplaygrounds.com/getting-your-school-grant-funded/>

Sending a very big

**THANK
YOU!**