# AN INTRODUCTION TO COST



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Policy Officer at the COST Association







Chapter 1

# About COST & Strategic Priorities







# European Cooperation in Science & Technology

COST provides networking opportunities for researchers and innovators in order to strengthen Europe's capacity to address scientific, technological and societal challenges



### ALL FIELDS OF S&T

(mono- or interdisciplinary, new and emerging fields)



(academia, public organisation, industry, NGO, International Organisations)



### **BOTTOM-UP APPROACH**







ALL CAREER STAGES
(young and experienced researchers)



#### **ALL COUNTRIES**

- 41 COST Members + 1 Cooperating Member
- 16 Near Neighbour Countries
- Global cooperation

#### **OPEN BY NATURE**



# **COST Membership**

### 41 Members

- Albania
- Armenia
- Austria
- Belgium
- Bosnia and Herzegovina
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Georgia
- Germany

- Greece
- Hungary
- Iceland
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Malta
- The Republic of Moldova
- Montenegro
- The Netherlands
- The Republic of North Macedonia

- Norway
  - PolandPortugal
  - Romania
  - Serbia
  - Slovakia
  - Slovenia
  - Spain
  - Sweden
  - Switzerland
  - Turkey
  - Ukraine
  - United Kingdom

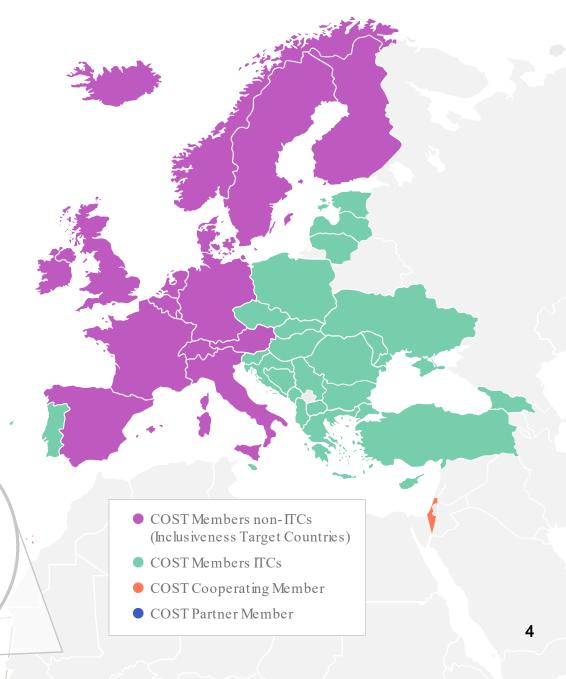
### 1 Cooperating Member

Israel

### 1 Partner Member

South Africa





# COST Actions: how do they work?

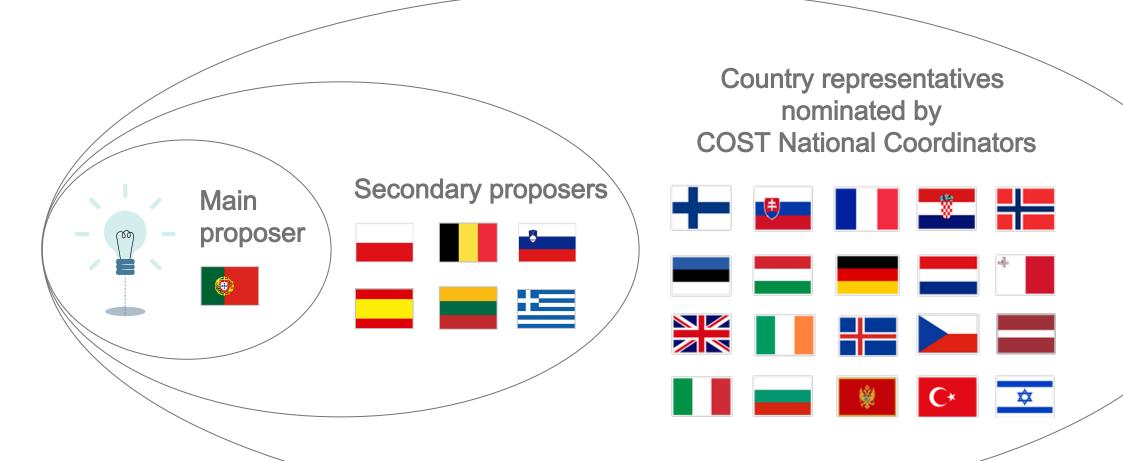






# How it works?







### **COST Actions**

### AN EFFICIENT NETWORKING TOOL

### **COST** provides funding

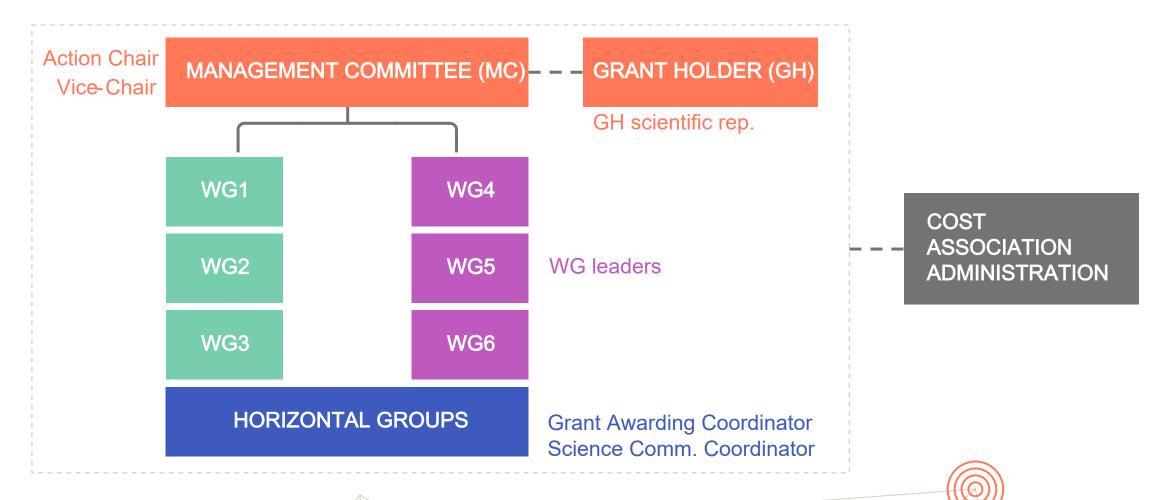
for research coordination and capacity building activities

COST is not funding research itself, but pooling resources and research results by networking





# COST Action structure and leadership positions



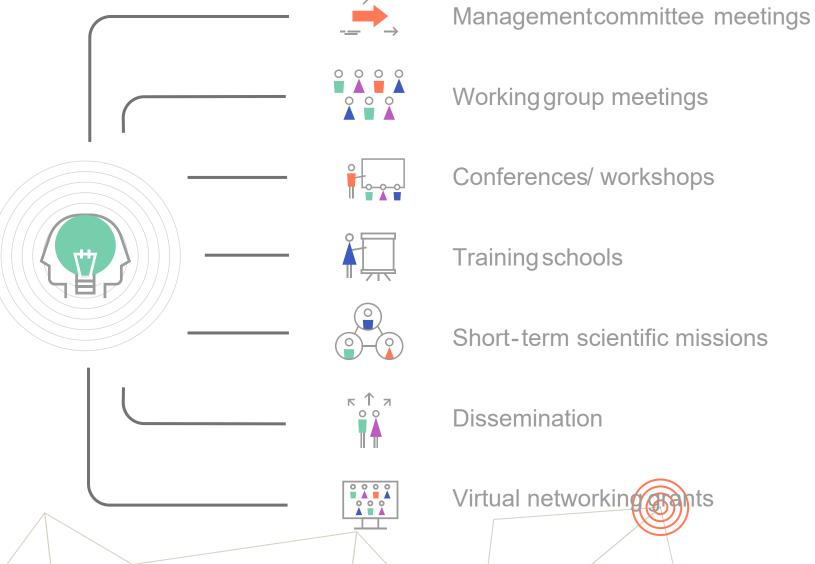


**Networking tools** 

Research coordination

& capacity building

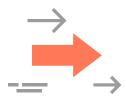
activities





# Key figures





**292**Running Actions



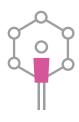
203 Trainingschools



€150,000
Averageannualbudget of a COST Action



2,320 Short-term scientific missions

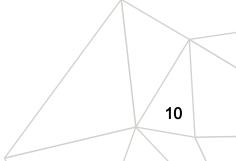


**45,000**Researchersinvolved in COST Actions



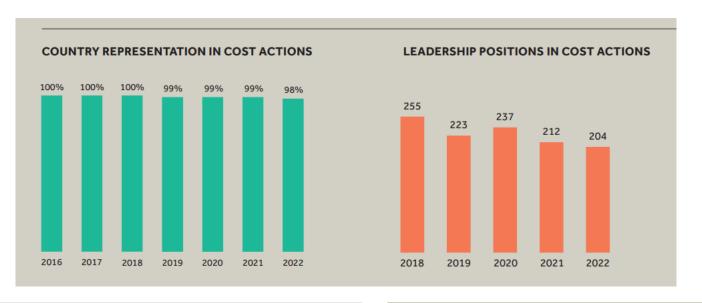
€153 million
COST budget
(in Horizon Europe for a-§earperiod)

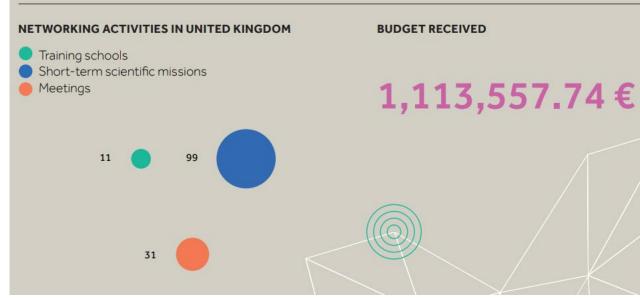


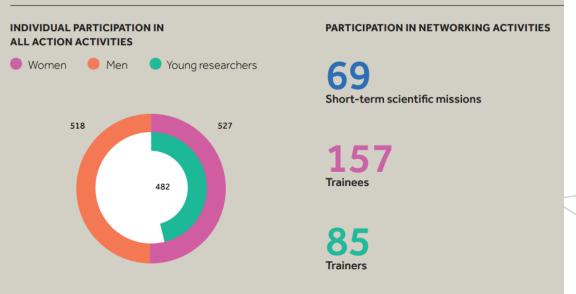


# UK participation in COST: key figures 2022









# **Impact**



### Scientific and societal impact

 Scientific discoveries and breakthroughs, development of new research infrastructures, adoption of common standards, technological applications in the form of products and services, etc.



### Research careers

 95% of researchers participating in COST Actions indicate that participation has led to career advancement



### Follow-up funding

 Horizon 2020 reported success rate: 39% (on a yearly basis, around €390 million of approved common research projects spin off from ending Actions)



### Travel Reimbursement rules



## Daily allowance (DA) covers:

- Hotel
- Meals
- Local travel in meeting country



#### Based on:

- Meeting country
- Traveltimes

# Long distance travel (≥101 km) covers totaltravelexpenses up to 1500 EUR

- Meeting country €160-200
- Traveltimes
- Meals offered by Local Organiser (-10% deducted per provided meal)

### Others:

- Visa costs
- Travelcancellation insurance



# What is the maximum grant amount for each type?

- STSM
  - ✓ Up to 4000 EUR
  - -request to prepay 50% is possible but decision lies with GH Institution

- Virtual Mobility Grant
  - ✓ Up to 1500 EUR

- ITC Conference Grants and Dissemination Conference Grants
  - ✓ Up to 2000 EURper grant for face to face conferences

### **OR**

✓ Up to 500 EURfor virtual conferences







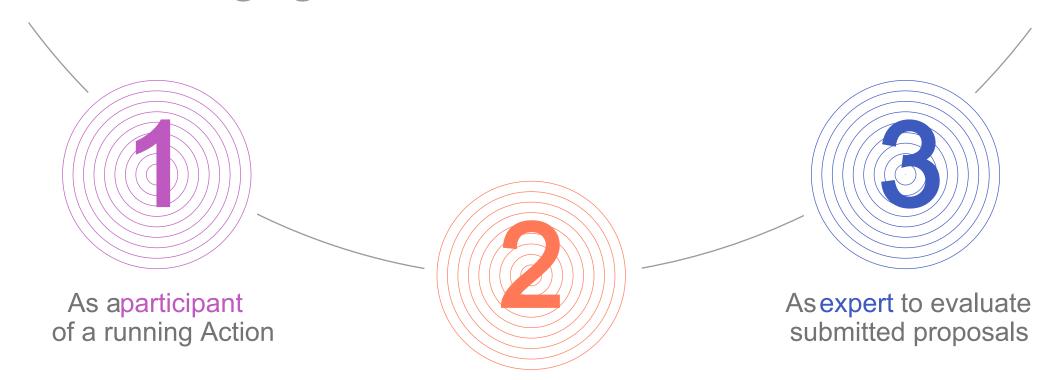
# How to engage with COST?







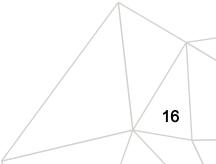
# How to engage with COST?



As aproposer of a new COST Action

NEXT COLLECTION DATE: 25 OCTOBER 2023





# 1. As a participant in a running Action (1/2)



# FIND THE ACTION IN YOUR FIELD of interest on the COST website



# PROJECT PLAN (MoU)—identify your potential contribution

**READ THE** 



# BROWSE THE ACTION'S OWN WEBSITE -check their

activities



OPPORTUNITIES
to join the Action
and your contact
person

**IDENTIFY THE** 







# 1. As a participant in a running Action (2/2)



AS A MANAGEMENT COMMITTEE (MC) MEMBER

(contact the COST National Coordinator)



AS A WORKING GROUP (WG) PARTICIPANT

(contact the WG leader)



AS AD-HOC PARTICIPANT IN ACTION ACTIVITIES

short-term scientific mission, ITC conference grant, training school, workshop/conference,...

(check the Action's website, contact the chair or the national MC member)





### JOIN 70 NEW COST ACTIONS FROM 9 JUNE 2023



19% of main proposers are young



47% of
main
proposers
are
women



66% of the
proposals
feature
participants
from
ndustry/SMEs



26% of main proposers come from an Inclusiveness Target Country (ITC)



77% of the future networks have attracted participants from all over the world

Find out more about how to join a new COST Action here: 70 new COST Actions now online: apply to join







# 2. As proposer of a new COST Action



One-stage online submission of proposals (eCOST)

COST OPEN CALL

Proposal should focus on S&T Excellence, Networking Excellence, Impact and Implementation 70 COST Actions approved per collection

Mainproposer + secondary proposer

Collection date: 25 October 2023 12:00 CET

www.COST.eu opencall@cost.eu

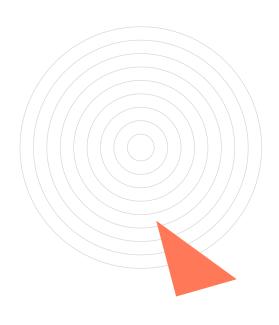




# Open Call for proposals—how to apply E-COST



Create a COST account: <a href="https://www.cost.eu/ecost">https://www.cost.eu/ecost</a>



Open Call
Open Call
COST Actions

Calendar Proposals

Evaluations

> Proposals

> Create new proposal

Create New Proposal

Online registration and submission:

General information

+ Technical Annex

















£03

- 1. S&T Excellence
- 2. Networking Excellence
- 3. Impact
- 4. Implementation

COST EXCELLENCE AND INCLUSIVENESS POLICY SPECIFIC OBJECTIVES





# COST Excellence and Inclusiveness Policy

### **PROMOTING**



GEOGRAPHICAL BALANCE(ITC)



AGE BALANCE (young researchers)



**GENDER BALANCE** throughout its activities



### **OBJECTIVES**

- Identifying excellence in science and technology across Europe
- Increasing research communities' access to funding and infrastructures
- Triggering structural changes in COST Members' national research systems







# **Evaluation**









- Anonymous
- Minimum 50% ITC
- Peaceful purpose
- Format

English



# EXTERNAL REMOTE EVALUATION

- 3 Independent External Experts
- Technical Annex



REVISION AND QUALITY CHECK BY REVIEW PANELS



SELECTION
BY THE SCIENTIFIC
COMMITTEE

COST policy and objectives



APPROVAL BY COST COMMITTEE OF SENIOR OFFICIALS

Results 78 months after submission





### **Evaluation criteria**



### S&T EXCELLENCE

### NETWORKING EXCELLENCE



### IMPACT



### **IMPLEMENTATION**

- Soundness of the challenge
- Progress beyond the state-of-the-art

- Added value of networking in S&T excellence
- Added value of networking in Impact

- Impact to science, society and competitiveness, and potential for innovation/breakthroughs
- Measures to maximise impact

 Coherence and effectiveness of the work plan



### **3 QUESTIONS**



### **3 QUESTIONS**



### **3 QUESTIONS**



### 1 QUESTION

Total marks for the section = 15 points

Total marks for the section = 15 points

Total marks for the section = 15 points

Total marks for the section = 5 points

TOTAL MARKS AWARDED = 50 pointsOVERALL THRESHOLD = 34 points







# How to apply in a nutshell

Read the official announcement

Online registration and submission(e-COST)

Helpdesk: opencall@cost.eu

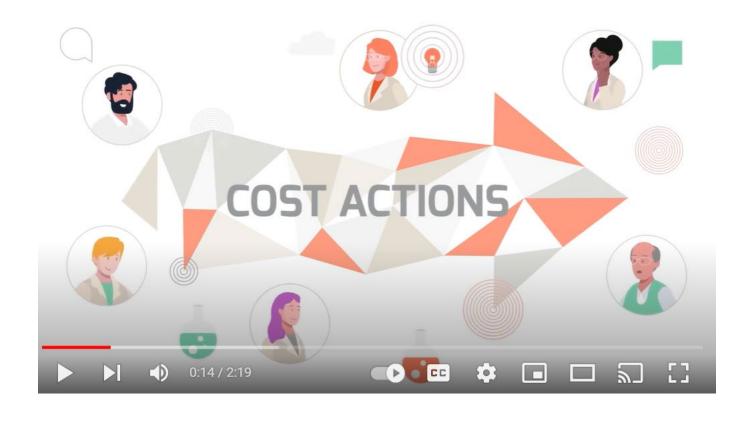
Read the SESA Guidelines

Technical Annex template
(Documents and Guidelines repository on the COST website)

70 new COST Actions:
News article on 70
approved COST
Actions – May 2023



# Tips for submitting a winning COST Action proposal





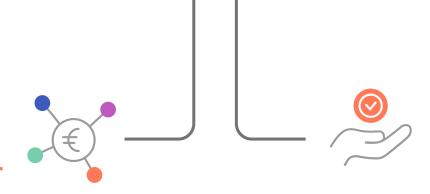






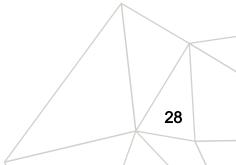
# As a COST Expert, you will have the opportunity to

**Contribute** to the evaluation of COST Open Call proposals



Participate in the assessment of Action results and outcomes





































### COST Action CA21149: ACRYRED

Reducing acrylamide exposure of consumers by a cereals supply-chain approach targeting asparagine Presentation Title

Nigel G. Halford, Rothamsted Research Action Chair

# The challenge





The problem of acrylamide in common food products has implications for the whole food supply chain, from plant breeders through farmers, food processors and retailers to consumers and regulators.

We have to stay ahead of the game, by making sure that cereal products can comply with current and future regulations on acrylamide.

This requires a farm-to-fork understanding of acrylamide mitigation in foods produced from grains.

### Who is involved?

- Plant breeders
- Agricultural grain farming community
- Global grain traders
- EU food processors
- Toxicologists
- Academic researchers from relevant disciplines
- Public regulators
- Relevant consumer groups
- Health interest groups



# Key objectives



- Co-ordinate research.
- Facilitate knowledge exchange between scientific disciplines.
- Stimulate research in supply chain management.
- Stimulate research efforts in cereal farming practices.
- Build capacity.
- Create interdisciplinary training.
- Develop academic/industrial collaboration programmes to reduce barriers between knowledge and implementation.
- Support researchers from Target Countries to extend knowledge network.

# What we hope to achieve



### **Scientific progress**

- Cross-disciplinary exchange of knowledge that will inspire new research efforts in scientific fields that have not been involved in the challenge to reduce acrylamide levels in food so far.
- Holistic understanding of the cereal supply chain that will support improvement of quality and food safety management.
- An overview of the relative risks and consequences of changes in crop composition and processing for the Maillard Reaction, product quality and food safety for cereal-derived products.
- A better understanding of the underlying genetics controlling asparagine metabolism in cereals that can underpin the development of genetic tools for breeders.
- Development and dissemination of 'best practice' for crop management to produce cereal grains with consistently low acrylamide-forming potential, including crop nutrition and protection.
- Discussions on rapid testing parameters and criteria that will help to define standards for the development of accurate rapid testing tools for asparagine levels.

# What we hope to achieve



### **Economic progress**

- Discussions involving the full supply chain on the economic impact that measures to lower acrylamide levels will have on the value chain and on consumer prices, and how costs and benefits may be distributed along the value-chain.
- Increased availability of raw materials at lower and more consistent free asparagine levels.
- Discussion on technical and economic requirements that will inform the development and commercialisation of rapid measurement tools for asparagine levels.
- Enabling of grain buyers to select what they buy based on free asparagine levels using a rapid asparagine testing tool.

# What we hope to achieve

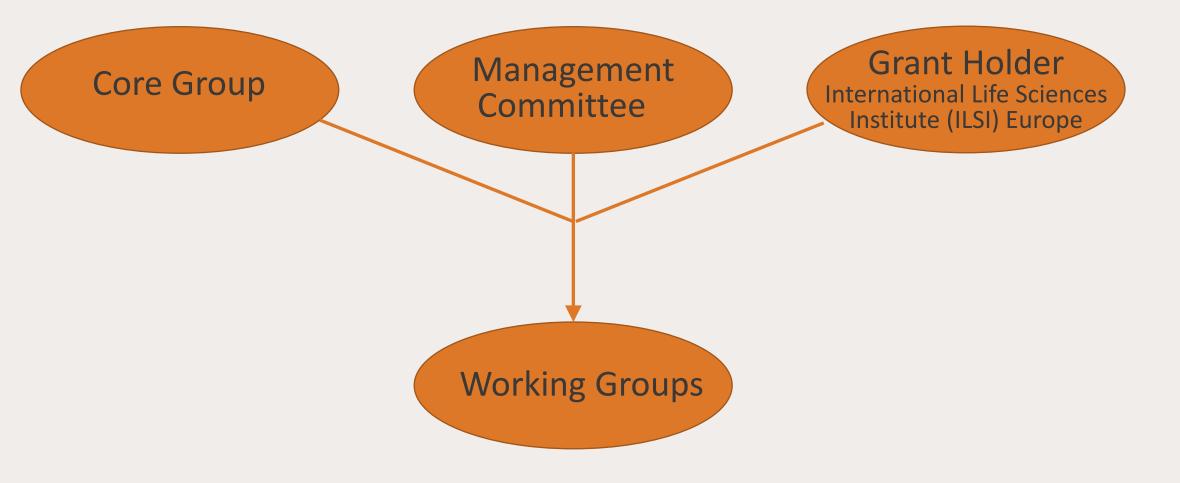


### **Societal progress**

- Facilitate and accelerate the reduction in acrylamide levels in cereal products.
- Promote dialogue on and encourage the inclusion of information on free asparagine levels in crop variety descriptions.
- Promote the development and validation of analytical tools to measure free asparagine and acrylamide.
- Provide a source of information for policy-makers about what the scientific community and the industrial supply chain are developing to reduce the risk of acrylamide formation in products.
- Contribute to the continuous improvement of the FoodDrinkEurope Toolbox.

#### Structure of the COST Action





#### The structure of the COST Action



#### Core Group

- Action Chair:
- Vice Chair:
- Grant Holder Scientific Rep.:
- Grant Awarding Coordinator:
- Science Communication Coordinator:
- Working Group leaders and co-leaders.

Nigel Halford

Neil Buck

Andrea Colafranceschi

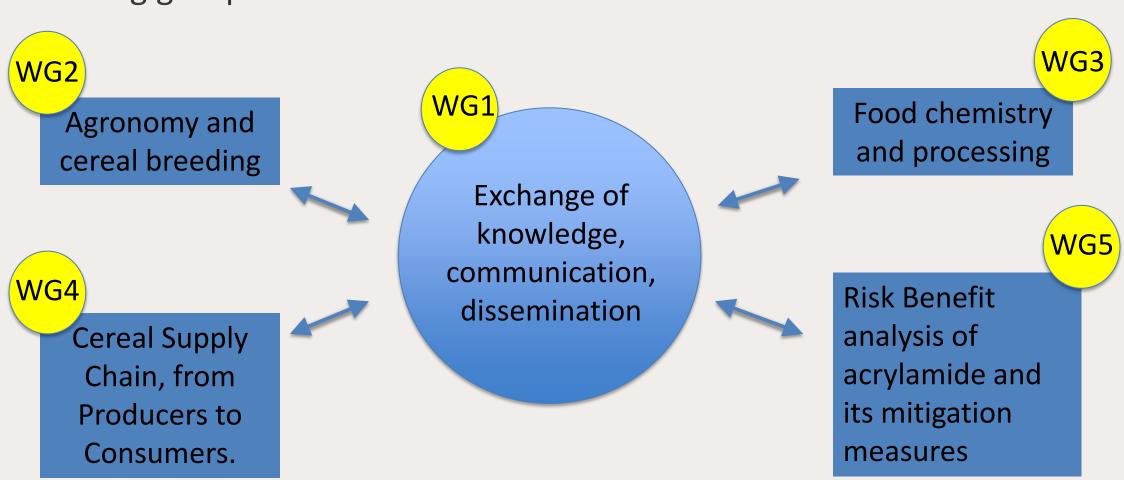
Kristína Kukurová

Małgorzata Starowicz

### The structure of the COST Action



#### Five working groups:





Exchange of knowledge, communication, dissemination

Leader: Nigel Halford (UK)

Co-leader: Małgorzata Starowicz (PL)





Leader: Marianne Rakszegi (HU)

Co-leader: Viktor Korzun (DE)





Leader: Jane Parker (UK)

Co-leader: Christine Nowakowski (US)



Cereal Supply
Chain, from
Producers to
Consumers

Leader: Tanya Curtis (UK)

Co-leader: TBC



Risk Benefit analysis of acrylamide and its mitigation measures Leader: Zuzana Ciesarová (SK)

Co-leader: Vural Gökmen (TR)

## Working together



• There must be interactions between as well as within working groups.

• Dialogue between researchers, breeders and food businesses is crucial: what food businesses need, what plant breeders can realistically deliver, how research scientists can support, how it impacts on the cereal supply chain.

• Free asparagine accumulation in grains is affected by many factors, meaning that many researchers may not realise the significance of their work for the acrylamide issue: we need to bring those people into the COST Action.

#### Other benefits of the COST Action

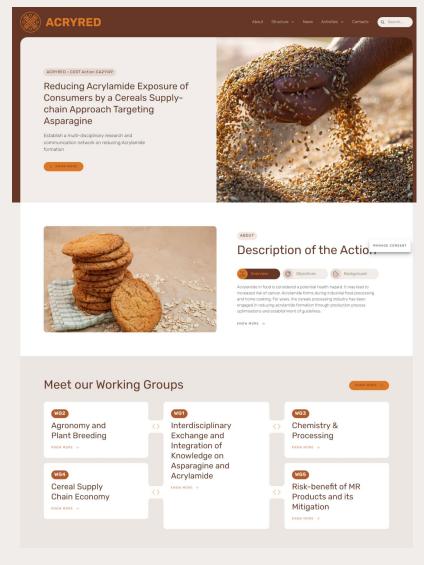


- Being chair of a COST Action opens some doors and gets people's attention.
- The COST Action raises awareness of the issue amongst scientists. Grants for scientists to visit other labs may bring people into this research area, particularly ECRs.
- The COST Action participants have a lot of expertise on the acrylamide issue: we aim to become a recognised, reliable and trusted source of information.
- We can bring people together from very different sectors, from plant breeders and farmers, through to food businesses and consumer groups.

### The ACRYRED website



https://acryred.eu/?cmp\_bypass=btk



## Thankyou!

