



BIONANOSENS



**Deeping collaboration on novel
biomolecular electronics based on
“smart” nanomaterials**

**Horizon 2020 Framework Programme
Call: H2020-WIDESPREAD-2020-5
Proposal number: 951887**

www.bionanosens.eu

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Project Partners :

IMBG – Institute of Molecular Biology and Genetics,
Ukraine

UCBL - Université Claude Bernard Lyon 1, France

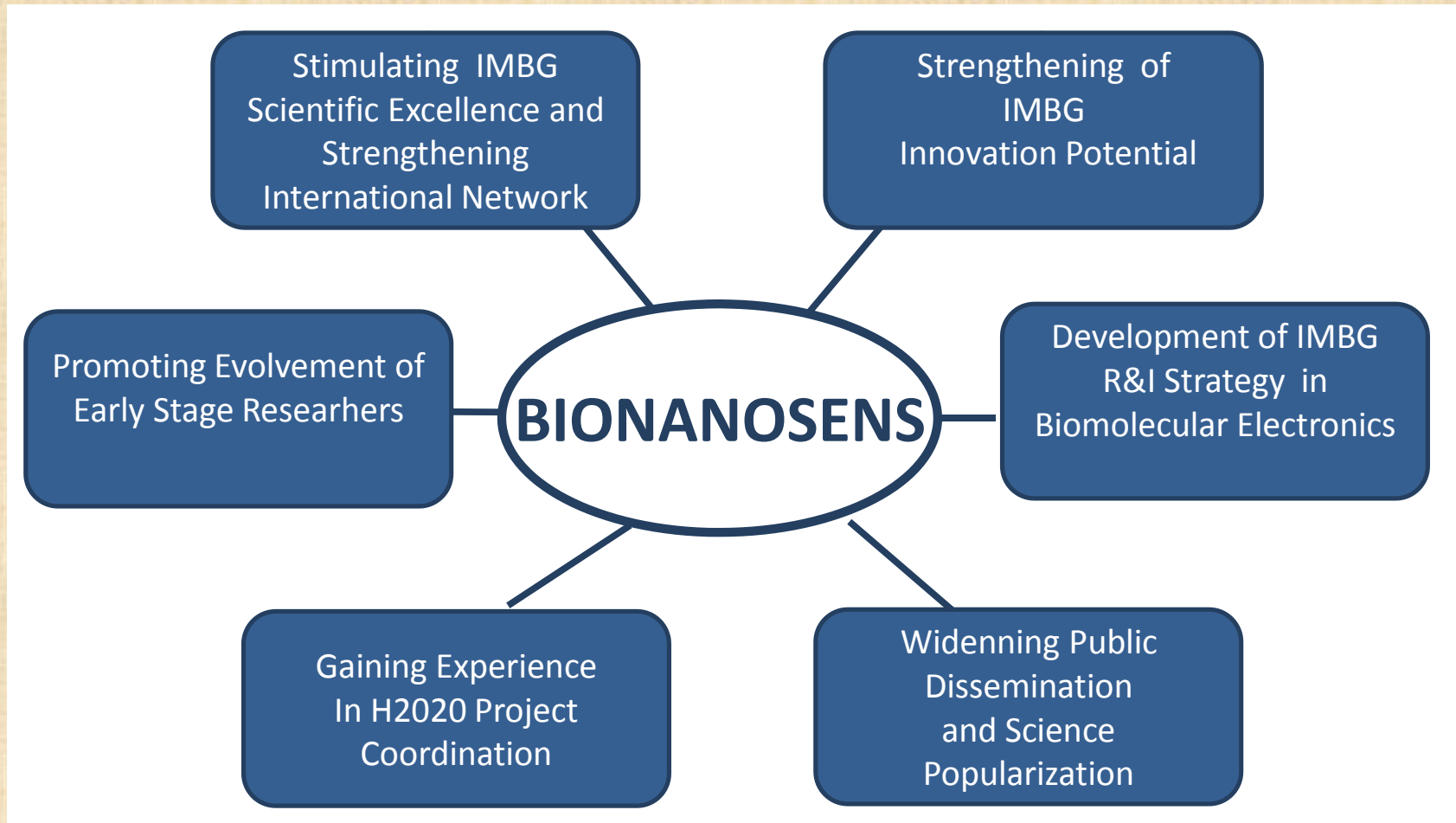
ZSI - Zentrum für Soziale Innovation, Austria

HZDR - Helmholtz-Zentrum Dresden-Rossendorf,
Germany

LIP - Lyon Ingénierie Projets, France

Funding: 895 573 Euros for three years

Objectives of Project



The project is devoted to the boosting of international collaboration, development of the operational network and twinning in research and innovation activities between the best EU and Ukrainian groups of scientists, focusing on the stimulating scientific excellence and innovation capacity of IMBG in the Analytical Biotechnologies area, and further improving standards of managing and conducting EU funded research and innovation projects.

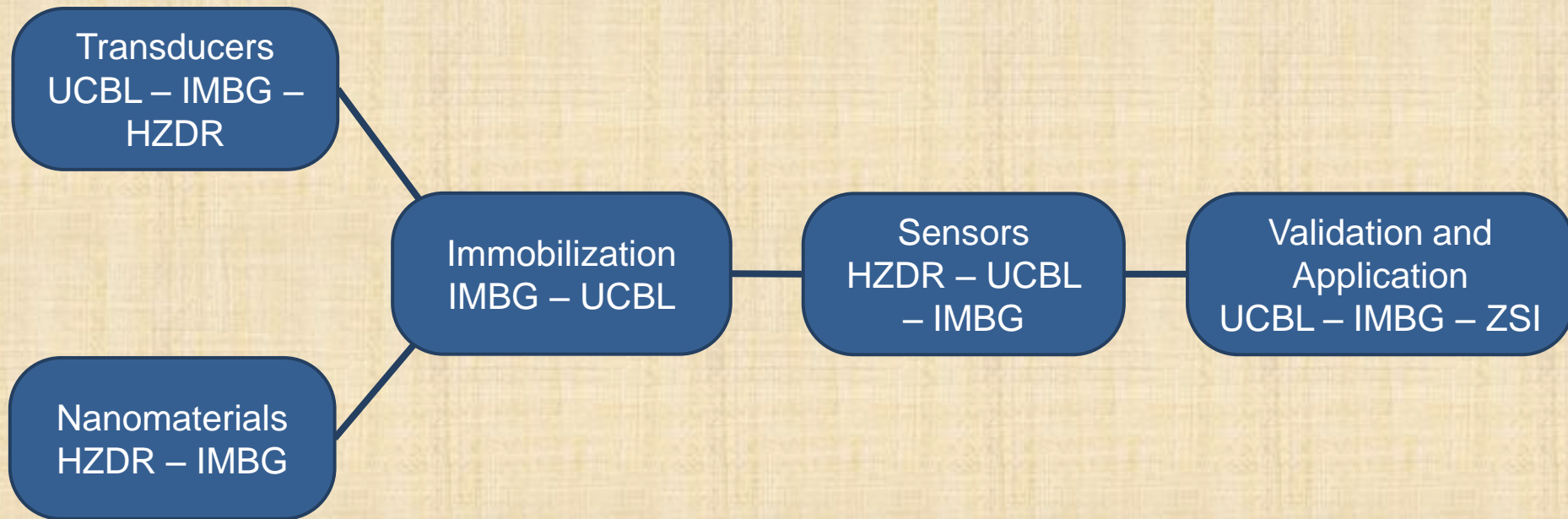
BIONANOSENS goals and objectives will be realized via numerous activities described in six Work Packages

WP1	Strengthening collaboration in research and innovations with the European partners
WP2	Building capacities for successful participation in the innovative European collaborative research
WP3	Promoting young scientists and early stage researchers
WP4	Joint development of the IMBG R&I Strategy in biomolecular electronics
WP5	Public outreach: Communication, dissemination and exploitation of knowledge and the project results
WP6	Management of the project consortium

WP1. Strengthening collaboration in research and innovations with the European partners

Leader: UCBL

Scientific trainings and experience exchange measures on development of new variant of transducers and experimental cells, and other aspects of biosensor development and applications.



As one of the most valuable results of WP1, reinforced S&I potential of the IMBG in analytical electronics will allow it to become more visible and attractive as the potential collaborative partner for wider networking at the EU level.

WP2. Building capacities for successful participation in the innovative European collaborative research

Leader: ZSI

Development of **special training programs**, which will help the IMBG and its staff to build their competency in the management of research results and innovations.

For this purpose, the well-experienced EU partners will provide the IMBG staff with trainings on EU FP participation rules and conditions as well as successful proposal writing. Besides, the complementary courses will be organized for IMBG scientists and administrators focusing on the intellectual property, technology transfer, fundraising skills, business plan writing, marketing skills trainings etc. A special Innovation management unit (IMU) will be created at the IMBG as a target group for special trainings in order to make them most efficient and to develop an Action plan for their further sustainable innovation management activities for IMBG.

WP3. Promoting young scientists and early stage researchers

Leader: HZDR

Improvement of professional skills of **IMBG young scientists and ESR**, providing them (in addition to trainings organized in WP1 and WP2) advanced possibilities to participate in a call for Start-ups, a Summer school.

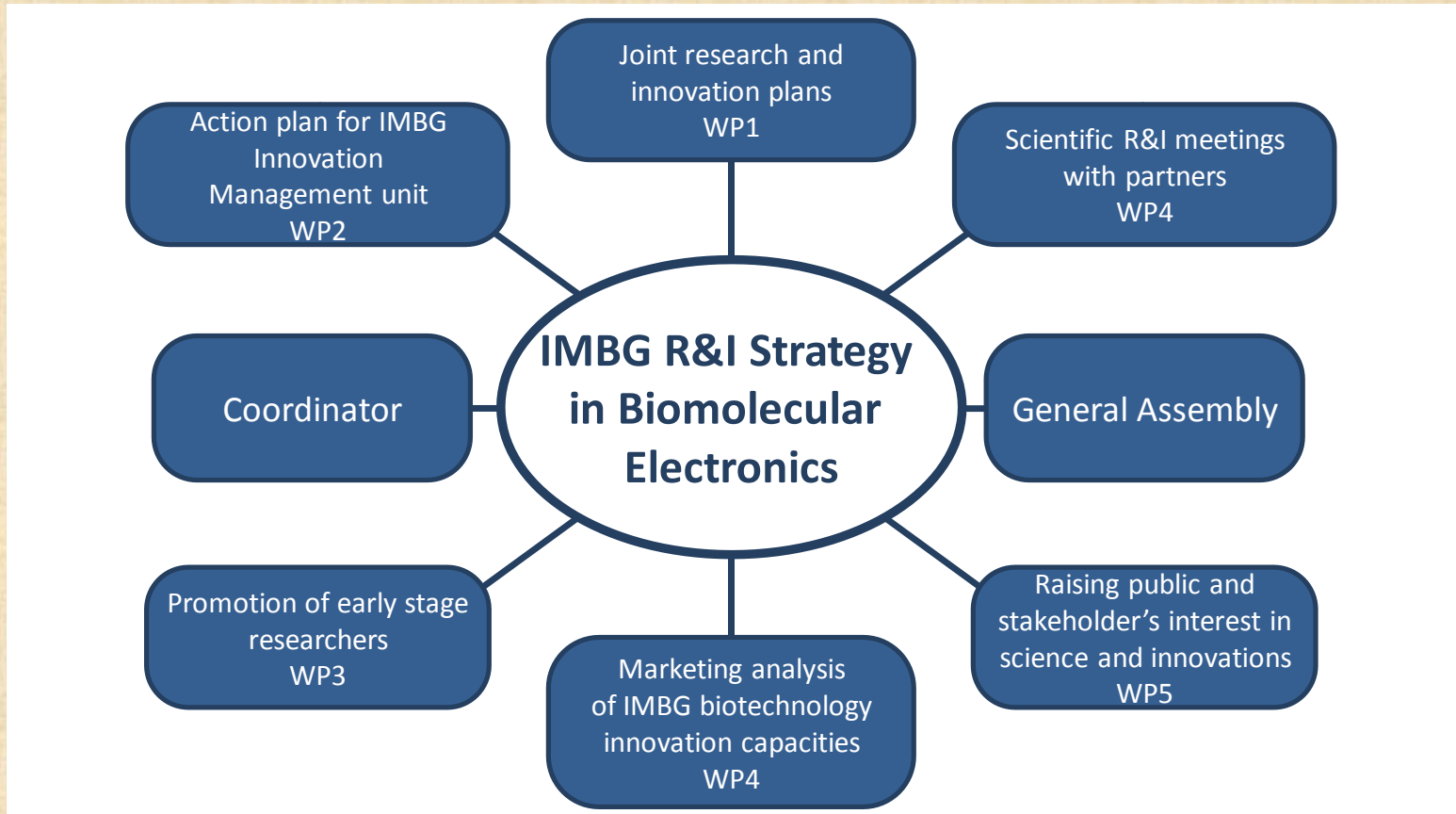
Creation of new PhD and Masters programmes on biomolecular electronics.

All activities will be organized to improve the profile of scientists.

WP4. Joint development of the IMBG R&I Strategy in biomolecular electronics

Leader: IMBG

The Strategy will consist of different parts, devoted to research excellence, international collaboration, innovation management, further evolvement of ESR in IMBG, popularization of science, etc.



WP5. Public outreach: Communication, dissemination and exploitation of knowledge and the project results

Leader: ZSI

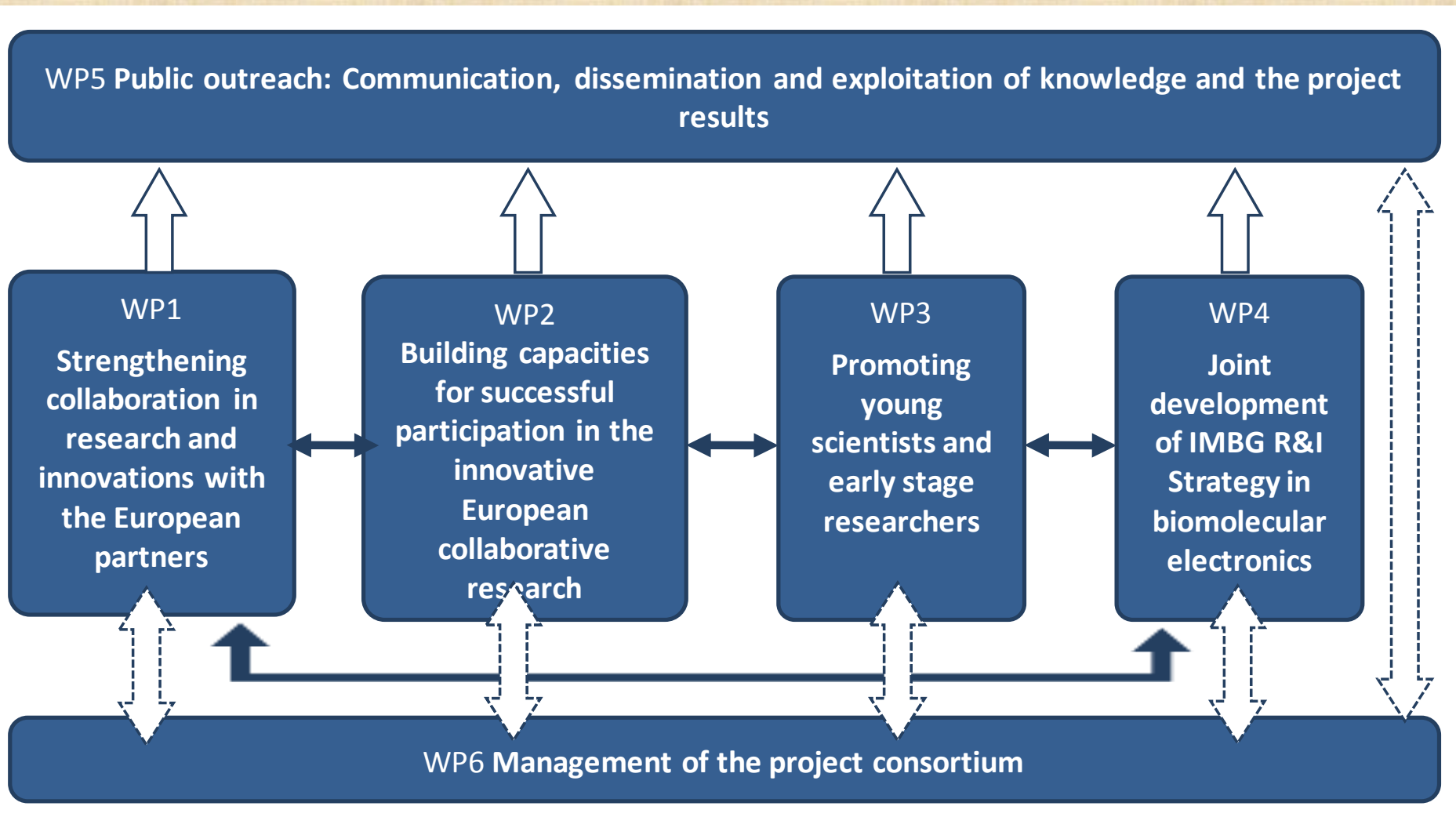
Management of the project's public appearance and the dissemination of its results, including the sharing of scientific knowledge. It collects several specific actions aimed at increasing the visibility of IMBG both in Ukraine and across the EU (communication).

WP6. Management of the project consortium

Leader: IMBG

Project management. In these activities, IMBG will be strongly supported by the EU collaborating organizations, in particular LIP.

Graphical presentation of the components showing how they inter-relate



CORONAVIRUS pandemic can not affect the results of bionanosens

However, it have changes somewhat the ways of its implementation:

- Project trainings on management and additional skills for the IMBG researchers and administrators (WP2, WP3) can not be held face-to-face. However – they can be held online!
- In WP5, our dissemination materials (printed 2021 calendar, leaflets etc), can not be distributed to all who is or could be interested, to all stakeholders. However – they can be sent widely by e-mail, using our large mailing lists!
- Scientific conferences (WP4) – we participate now in several conferences online, and we organize firstly our young scientists' conference to have examples and to organize later our large project conferences online perfectly.
- Scientific trainings (WP1) – there is no permission to go abroad, to the project partners, to use their equipment and to study their modern methods and approaches. However, we have online scientific seminars to make our research areas more close and to achieve synergy in our common investigations.

We believe that the situation will change soon - due to science, due to vaccines!

BIONANOSENS challenges

- One more challenge – permanent changes of the project officer:

3 officers have been changed during 1 year 2020

It makes some destabilization effect on the project implementation process.

And it could be a problem, if we were alone in the management issues as the project coordinator (WP6).

However, happily we have very experienced European partners, who help and support us a lot, including management and relations with EC.