

Caso de éxito: Proyectos LUCIA y SUNRISE (Misión Cáncer)



Eunate Arana Arri
Coordinadora de Proyectos Internacionales



bto

BIOBIZKAIA

EUSKAL OSASUN
IKERKUNTZA
INVESTIGACION
VASCA
EN SALUD
BASQUE
HEALTH
RESEARCH

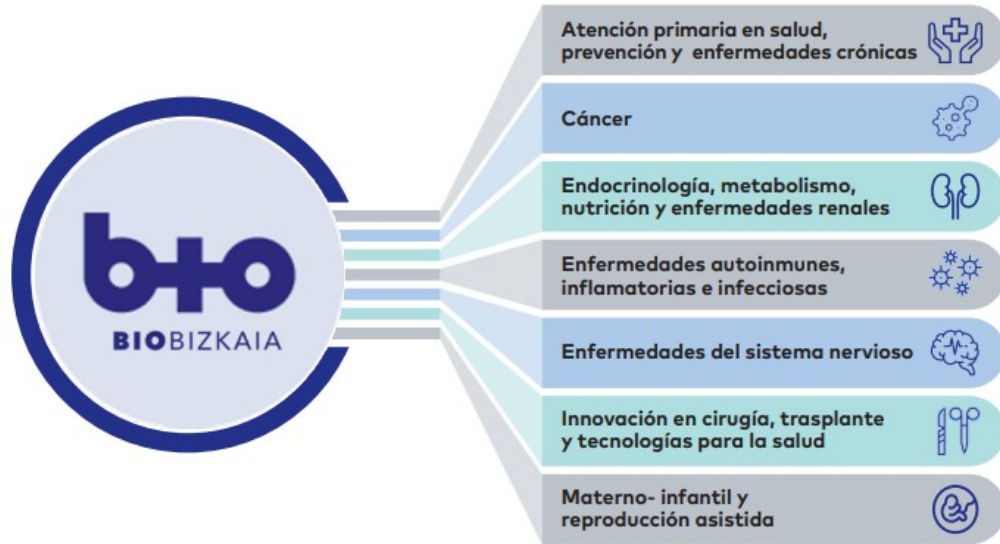




MISIÓN

Potenciar la investigación traslacional y la innovación sanitaria, para crear valor y generar un impacto en salud y en la calidad de vida para la sociedad

BIOBIZKAIA



15 servicios de apoyo a la investigación



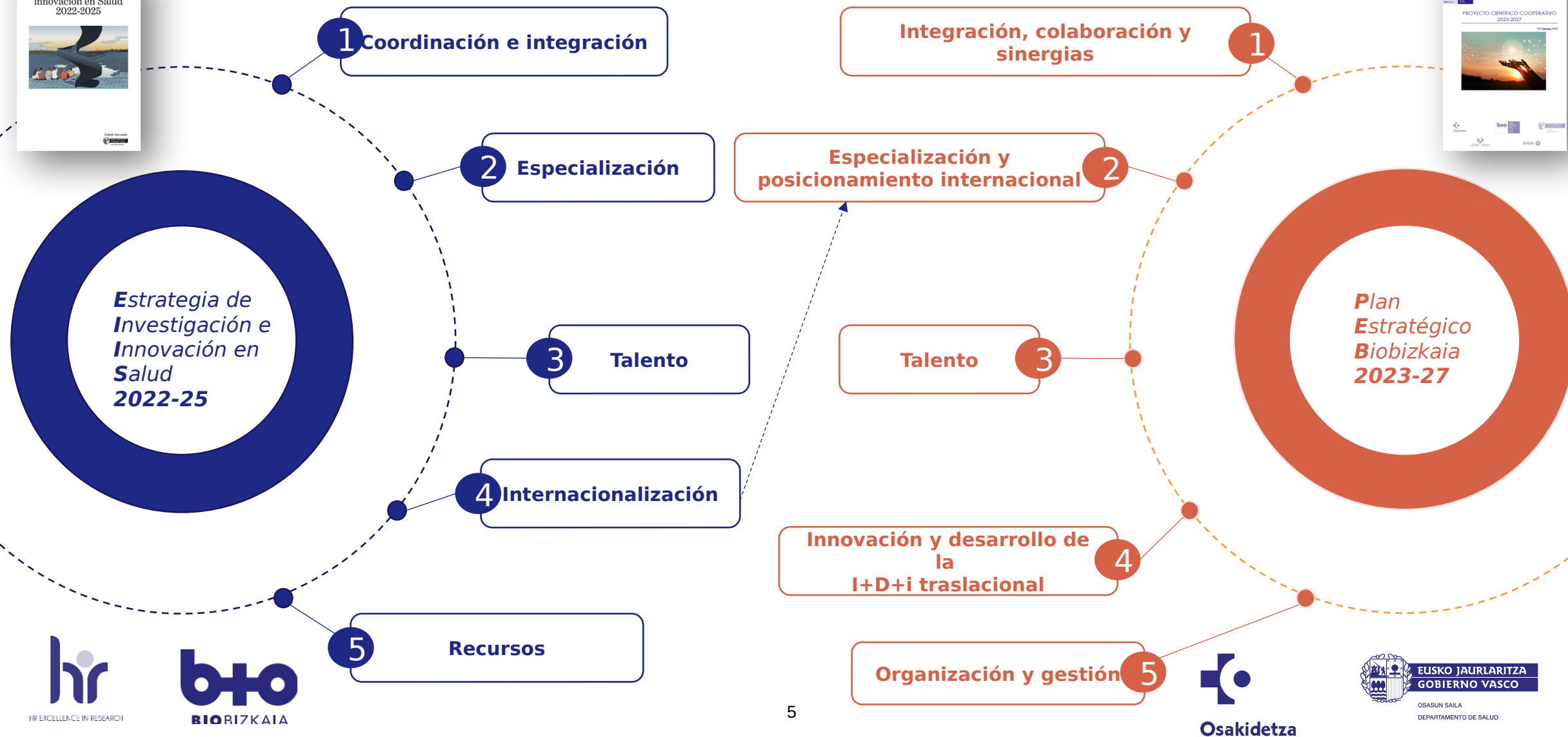
410 investigadores/as Euraxess en grupos Consolidados y Emergentes

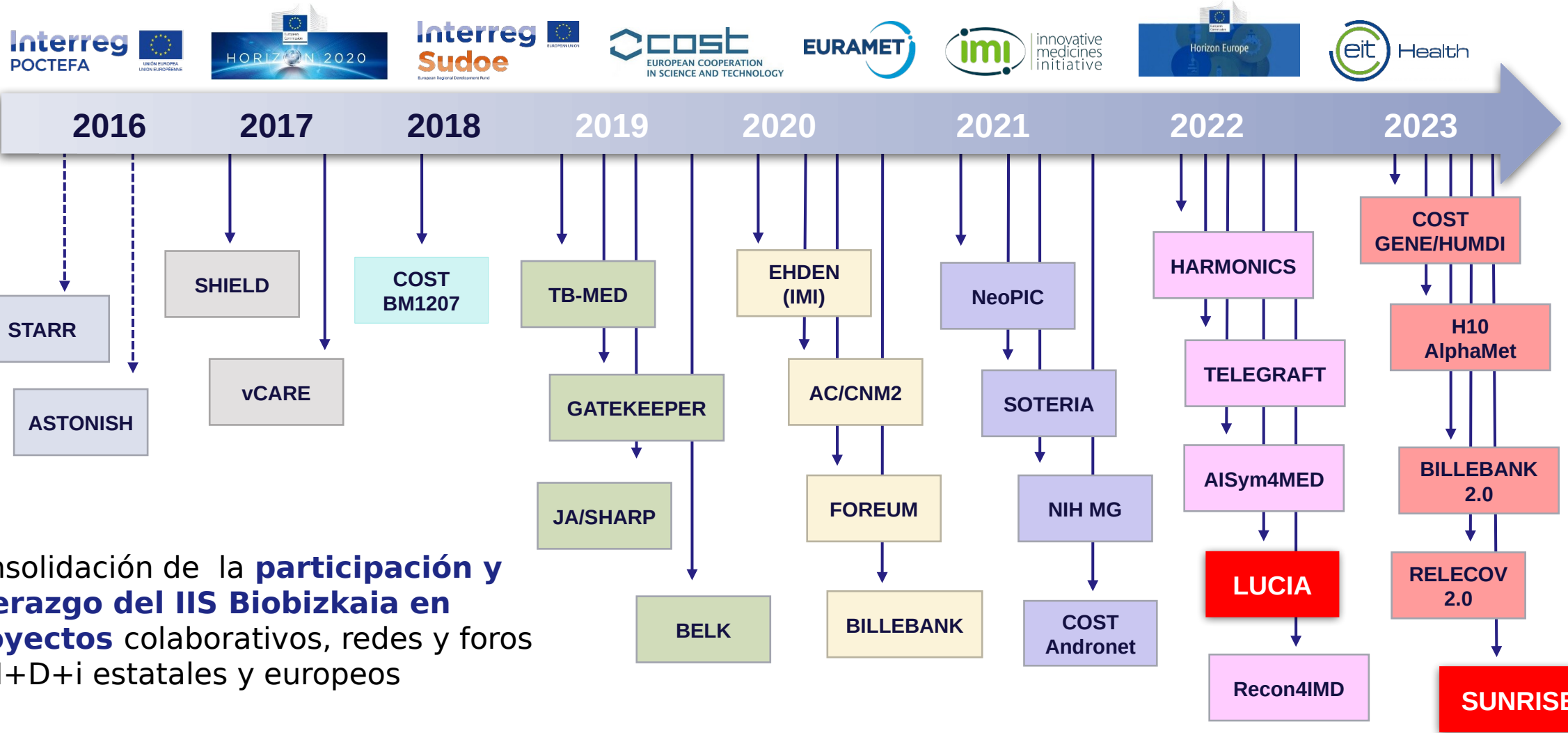


OSAKIDETZA	277
UPV/EHU	73
BIOBIZKAIA	53
OTROS	7



ESTRATEGIA I+i SALUD 2022-25 vs PE BIOCUCES 2023-27





Consolidación de la **participación y liderazgo del IIS Biobizkaia en proyectos** colaborativos, redes y foros de I+D+i estatales y europeos

6

**Call for proposals
cancer research**



**EU
MISSIONS**

CANCER

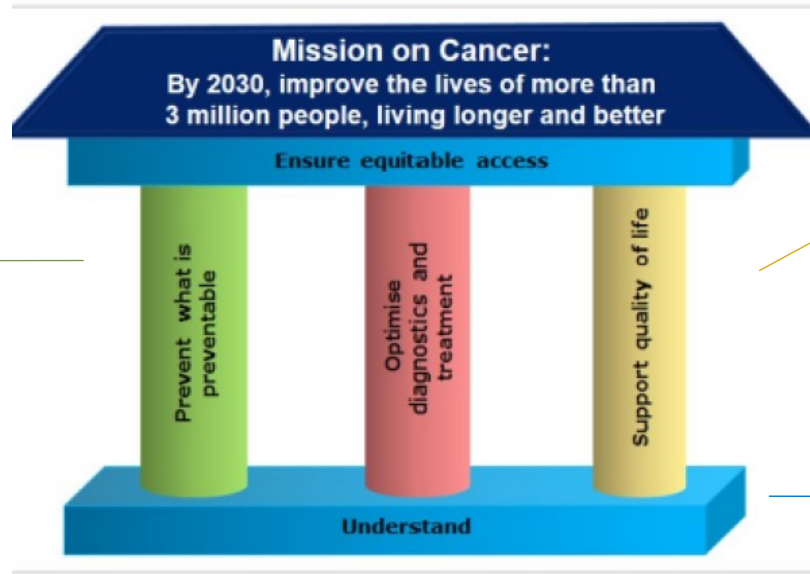


Cancer Mission - WP2021-2022-2023

The **EU Mission on Cancer** has the ambitious goal (in combination with Europe's Beating Cancer Plan) of **improving the lives of more than 2 million people** by 2030 through prevention, cure and, for those affected by cancer (including their families), to live **longer and better**.

- Develop new methods and technologies for cancer screening and early detection
HORIZON-MISS-2021-CANCER-02-01
- Improving and upscaling primary prevention of cancer through implementation research
HORIZON-MISS-2022-CANCER-01-01
- Enhance primary cancer prevention through sustainable behavioural change
HORIZON-MISS-2023-CANCER-01-02

- Pragmatic clinical trials to optimise treatments for patients with refractory cancers
HORIZON-MISS-2022-CANCER-01-03
- Strengthening research capacities of Comprehensive Cancer Infrastructures
HORIZON-MISS-2022-CANCER-01-02
- Pragmatic clinical trials on minimally invasive diagnostics
HORIZON-MISS-2023-CANCER-01-03



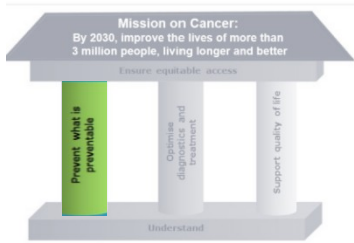
- Develop and validate a set of quality of life and patient preference measures for cancer patients and survivors
HORIZON-MISS-2021-CANCER-02-02
- Towards the creation of a European Cancer Patient Digital Centre
HORIZON-MISS-2022-CANCER-01-04
- Establish best practices and tools to improve the quality of life for childhood cancer patients, survivors and their families in European regions
HORIZON-MISS-2023-CANCER-01-04

- Better understanding of the impact of risk factors and health determinants on the development and progression of cancer
HORIZON-MISS-2021-CANCER-02-03
- Addressing poorly-understood tumour-host interactions to enhance immune system-centred treatment and care interventions in childhood, adolescent, adult and elderly cancer patients
HORIZON-MISS-2023-CANCER-01-01

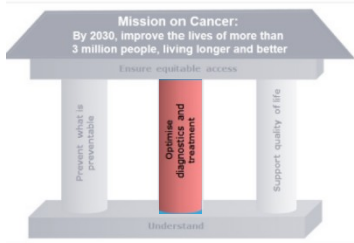
Establishing of national cancer mission hubs and creation of network to support the Mission on Cancer
HORIZON-MISS-2022-CANCER-01-05



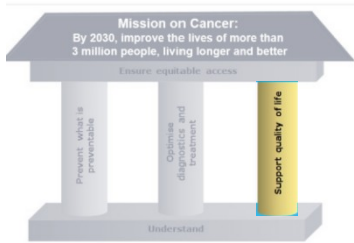
40/247 propuestas (17%)
Media éxito: 15%



Holistic and Collective Impact Model Approach for Improving and Upscaling Primary Cancer Prevention through AI and Digitally Assisted Behavioural Change



Joyful living through new screening and early detection pathways for cancer



A Holistic AI-driven Approach for Enhancing Quality of Life in the Cancer Journey



Early Cancer screening & Point of care diagnostics for Identification of host/cluster/combinations of organic compounds molecular prints from Exhaled air

LESSONS
LEARNED



Los objetivos ... están descritos genéricamente y son demasiado ambiciosos

La integración de diferentes disciplinas, incluidas las ciencias sociales y las humanidades, no está del todo clara

Ensayos clínicos pragmáticos sobre diagnósticos mínimamente invasivos

La parte de caracterización molecular no está bien integrada en el estudio clínico. Además, los biomarcadores mínimamente invasivos no se utilizan adecuadamente en los aspectos de la práctica clínica

La asignación de recursos no está suficientemente fundamentada. El coste de las pruebas moleculares está desequilibrado



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INVESTIGACIÓN VASCA EN SALUD

BASQUE HEALTH RESEARCH



HR EXCELLENCE IN RESEARCH



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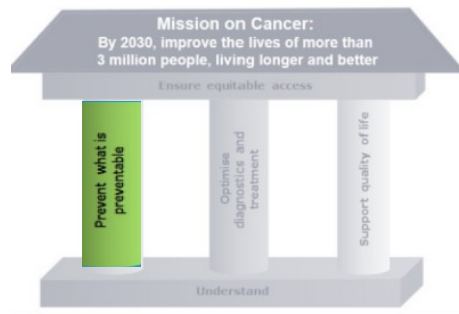
Osakidetza



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GOBIERNO VASCO

OSASUN SAILA
DEPARTAMENTO DE SALUD

bto
BIOBIZKAIA
2/6
33%



LUng Cancer-related risk factors and their Impact Assessment



SUstaiNable interRventions and healthy behaviours for adoleScent primary prEvention of cancer with digital



LUC



A



UNDERSTANDING
(RISKS FACTORS &
DETERMINANTS)
CLUSTER

PREVENTION
& EARLY
DETECTION
CLUSTER

 **5600**
Expected patients

 **7**
Months into

 **20**
Partners

 **4**
Medical centers

 **9**
Countries

Technology Provider	Clinical Validation	Biological Understanding
  	 	 
  	 	  
 		

Ethics and Legal Management

Policy Making & Communication and Dissemination



GIS y Nuevas Tecnologías



MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE



Descubrir y comprender nuevos factores de riesgo que contribuyan al desarrollo del cáncer de pulmón

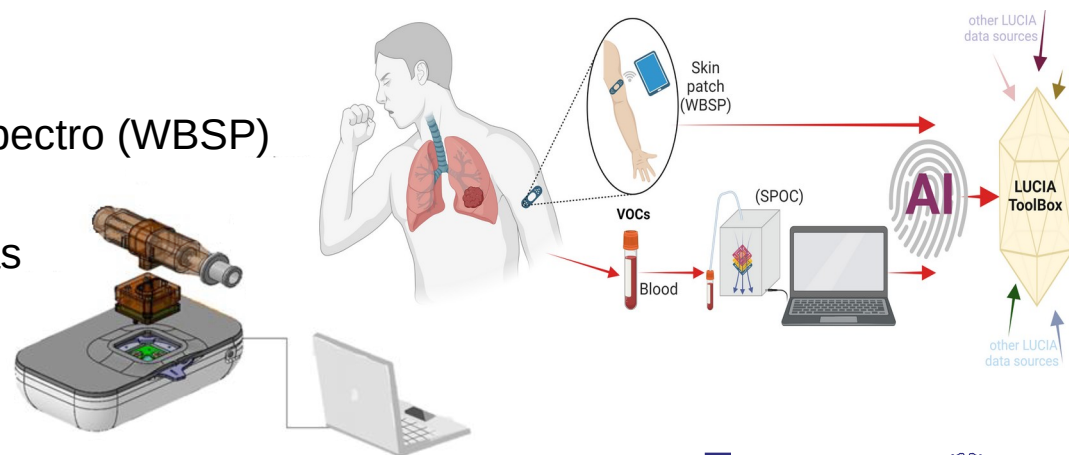


- **Personales** (contaminantes químicos y factores de comportamiento y estilo de vida)
- **Externos** (entornos urbanos, construidos y de transporte, aspectos sociales y climáticos)
- **Procesos celulares** (cambios en la genética, la epigenética, el metabolismo y el envejecimiento)



LUCIA implementará innovadoras herramientas para la detección precoz:

- Analizador de aliento
- Parche sensor multiuso de biomarcadores de amplio espectro (WBSP)
- Espectrometría en tarjeta (SPOC)
- Herramientas de IA para el análisis de imágenes médicas
- Aplicación de riesgo poligénico Multi-omics



1

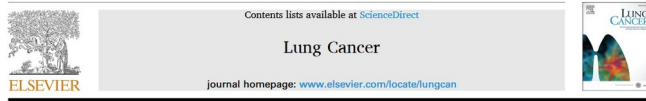


dkfz.
GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION



cnag

CRG
Centre
for Genomic
Regulation



Comparison of discrimination performance of 11 lung cancer risk models for predicting lung cancer in a prospective cohort of screening-age adults from Germany followed over 17 years

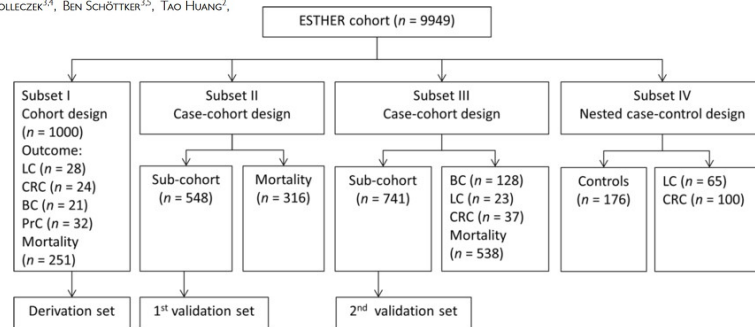
Megha Bhardwaj^{a,b,c,*}, Ben Schöttker^{a,d}, Bernd Holleczek^e, Hermann Brenner^{a,b,c}

Age and Aging 2022, 51: 1-10
https://doi.org/10.1093/ageing/afac154
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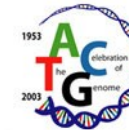
RESEARCH PAPER

Mortality and morbidity risk prediction for older former smokers based on a score of smoking history: evidence from UK Biobank and ESTHER cohorts

XU GAO¹, NINGHAO HUANG², MEIJI JIANG¹, BERND HOLLECEK^{3,4}, BEN SCHÖTTKER^{3,5}, TAO HUANG², HERMANN BRENNER^{3,5}



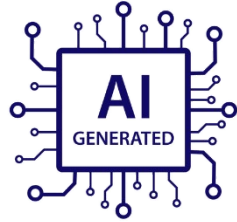
Ivo Gut (CNAG-CRG): «Pan-Cancer ha sido el proyecto de secuenciación del genoma del cáncer más grande del mundo»



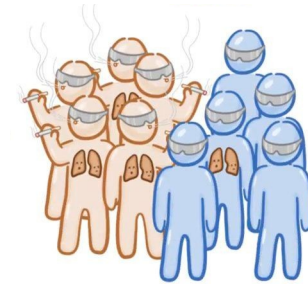
International Human Genome Sequencing Consortium



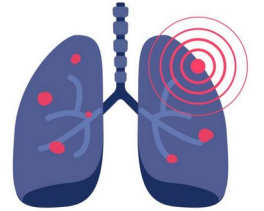
2



5.600



400



9.940



Osakidetza

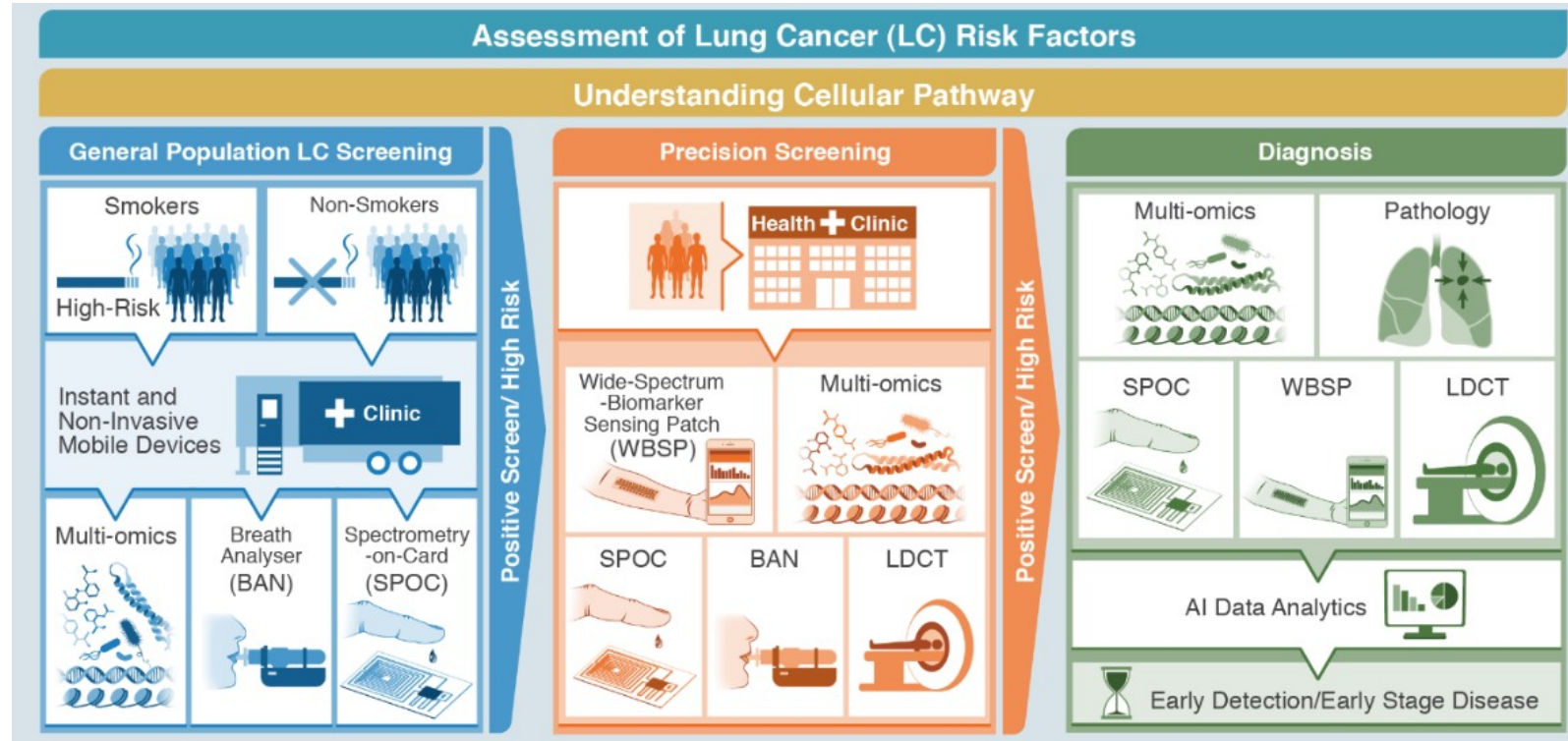


Junta de Andalucía

350.000



50.000



HR EXCELLENCE IN RESEARCH



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OSASUN SAILA DEPARTAMENTO DE SALUD



SUNRISE



SUstaiNable inteRventions and healthy behavIours for adoleScent primary prEvention of cancer with digital



Experiencia multidisciplinar

- Prevencción del cáncer
- Salud pública
- eSalud
- Cambio de comportamiento
- Psicología
- Innovación social
- Ética biomédica
- Estudios de implementación a gran escala

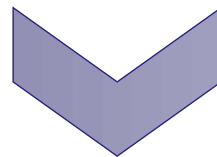
TOPIC: Mejorar la prevención primaria del cáncer mediante un cambio de **HORIZON-MISS-2023-CANCER-01-02** comportamiento sostenible



Gran brecha en el logro de **cambios efectivos y sostenibles** en el **comportamiento** de salud de los adolescentes hacia la prevención primaria del cáncer

Desarrollo sustancial de **conductas de riesgo en la adolescencia** que causan cáncer

Adolescentes con **bajo nivel de alfabetización y concienciación sobre el cáncer**



- **Prevención primaria** en cáncer en adolescentes
- **Cocrear**, implementar y evaluar un programa con **soluciones digitales** basadas en la **evidencia**
 - ✓ Campañas en redes sociales
 - ✓ Capacitación de alfabetización publicitaria
 - ✓ Plataformas de robots sociales
- **Laboratorios vivientes** en las escuelas



1



rauchfreiCoach



University of Zurich^{UZH}

WhatsApp-based Smokefree Coach

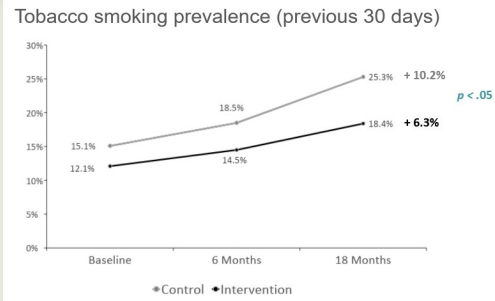


JMIR MHEALTH AND UHEALTH Haug et al

Original Paper

A Mobile Phone-Based Life-Skills Training Program for Substance Use Prevention Among Adolescents: Cluster-Randomized Controlled Trial

Severin Haug, PhD; Raquel Paz Castro, PhD; Andreas Wenger, MSc; Michael Patrick Schaub, PhD
Swiss Research Institute for Public Health and Addiction at Zurich University, Zurich, Switzerland



CERTH
CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

Promoting Obesity Prevention and Healthy Habits in Childhood: The OCARIoT Experience

LEIRE BASTIDA⁰¹, GLORIA CEA⁰², ANA MOYA⁰¹, ALBA GALLEGO⁰², EUGENIO GAETA⁰², SARA SILLAUAREN⁰¹, PAULO BARBOSA³, SABRINA SOUTO³, EUJESSIKA RODRIGUES⁵, MACARENA TORREGO-ELLACURIA⁰⁴, ANDREAS TRIANTAFYLIDIS⁰⁵, ANASTASIOS ALEXIADIS⁰⁵, KONSTANTINOS VOTIS⁰⁵, DIMITRIOS TZOVARAS⁰⁵, (Senior Member, IEEE), CLEILTON ROCHA⁶, LUCAS ALVES⁶, PEDRO MALO^{07,8}, MÂRCIO MATEUS⁶, FERNANDO FERREIRA⁰⁹, AND MARÍA TERESA ARREDONDO⁰⁹, (Member, IEEE)

Universal Access in the Information Society (2023) 22:1405–1415
<https://doi.org/10.1007/s10209-022-00922-7>

LONG PAPER

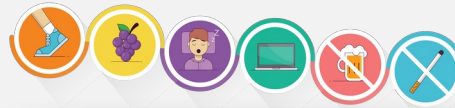
A social robot-based platform for health behavior change toward prevention of childhood obesity

Andreas Triantafyllidis¹ · Anastasios Alexiadis¹ · Dimosthenis Elmas¹ · Georgios Gerovasilis¹ · Konstantinos Votis¹ · Dimitrios Tzovaras¹



THE UNIVERSITY OF SYDNEY

Matilda Centre



NEW RESEARCH

Check for updates

The 7-Year Effectiveness of School-Based Alcohol Use Prevention From Adolescence to Early Adulthood: A Randomized Controlled Trial of Universal, Selective, and Combined Interventions

Swinton, PhD¹, Lexine A. Stapinski, MClInPsych, PhD², Tim Slade, PhD³, Sunderland, PhD⁴, Emma L. Barrett, PhD⁵, Katrina E. Champion, PhD⁶, ...

Health4Life eHealth intervention to modify multiple lifestyle risk behaviours among adolescent students in Australia: a cluster-randomised controlled trial

Katrina E Champion*, Nicola C Newton*, Lauren A Gardner, Cath Chapman, Louise Thornton, Tim Slade, Matthew Sunderland, Leanne Hides, Nyanda McBride, Siobhan O'Dean, Frances Kay-Lambkin, Steve Allsop, David R Lubans, Belinda Parmenter, Katherine Mills, Bonnie Spring, Bridie Osman, Rhiannon Ellem, Scarlett Smout, Jesse Whiffe, Courtney Stewart, Karrah M McCann, Amra Catakovic, Emily Hunter, Maree Teesson, on behalf of the Health4Life Team†



HR EXCELLENCE IN RESEARCH



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OSASUN SAILA DEPARTAMENTO DE SALUD

1



Impact of Thin-Ideals in Influencer Posts Promoting Healthy vs. Unhealthy Foods on Tweens' Healthy Food Choice Behavior

Steffi De Jans^{1*}, Liselot Hudders², Brigitte Naderer² and Valentina De Pau¹
¹ Department of Communication Sciences, Ghent University, Ghent, Belgium, ² Department of Media and Communication, Ludwig-Maximilians-Universität (LMU) München, Munich, Germany



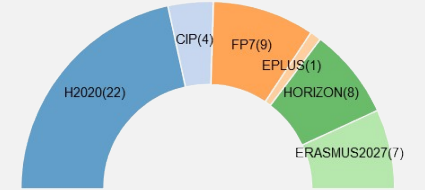
Appetite
Volume 162, 1 July 2021, 105182



Digital food marketing to children: How an influencer's lifestyle can stimulate healthy food choices among children

Steffi De Jans¹, Ines Spielvoogel², Brigitte Naderer², Liselot Hudders¹

SALL



SCHOOLS AS LIVING LABS



ELLINOGERMANIKI AGOGI

400+ SALL SCHOOLS IN OUR COMMUNITY PLATFORM

Abordar los programas de **educación científica**

fomentando la **colaboración** entre escuelas y comunidades locales

basada en la **metodología "living-lab"**

2

7.500



10-18 años



154



8



1



2



3



ESKERRIK ASKO
MUCHAS GRACIAS
THANK YOU



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