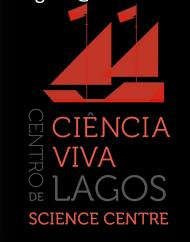
## Senior Citizens and Science Centres New Opportunities for Old Schoolers



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IN DEPTH

#### New opportunities for old schoolers





By 2020, in OECD countries, people over 65 will represent... More than Approximately of total of the size consumption across of the working More than all markets population of total population

## Why engage seniors?

#### **Engaging seniors**

Saturday 11 Jun 2016

09:00 - 10:15

Hall 5, #hall5

PANEL Equity & Inclusion Science ♥ society

Developing science programmes for adults is a true challenge for most of science centres and museums. They think they know almost everything, they will come only as accompaniers, and they think they're too old to have fun!

It is a priority to engage with seniors. They will be representing an ever-growing part of our ageing societies and we are convinced that not only can they learn and re-learn, but also that they can contribute important points of views and share valuable know-how.

The session will explore pros and cons, physical constraints and motivations.

#### Convenor



#### Luis Azevedo Rodrigues

Director
<u>Centro Ciencia Viva De Lagos</u>
Lagos Portugal
<u>Twitter</u>

#### Session speakers



#### Sara Mira

Science Communicator Manager <u>Centro Ciencia Viva De Lagos</u> Lagos Portugal

"High & Lows with Seniors"
Introducing science concepts might

not be the right way for communicating science for adult and senior public, but rather transforming their empirical knowledge into scientific information. Ciência Viva Lagos Science Centre developed science activities to active senior groups or to home care institutions. There are several topics that contribute for a successful session-high and lows on the implementation of senior's activities will be discuss from our experience.



#### Ivone Fachada

Executive Director
Science Centre of Bragança
Bragança Portugal

"Science activities for seniores: can we talk about anything?" Bragança

Ciência Viva Centre has a science outreach program for seniors. The main goals are to acquire knowledge in areas of greater scientific importance such as nanotechnology or astronomy;to stimulate critical thinking and to prevent physical inactivity and loneliness. Until 2015 we had over 800 seniors involved. In this session we are presenting the activities developed, how we keep seniors motivated, and a direct result of this outreach program - an intergenerational Marathon of science.



#### Ayman Elsayed

Director

<u>Bibliotheca Alexandrina Planetarium Science</u>

<u>Center</u>

Alexandria Egypt

"Participate & enjoy parenting-our kids, our treasure" The Planetarium

Science Center of Alexandria offers educational, supportive and customized workshop sessions to parents of children aging 5-9. Understanding middle childhood development, encouraging social-emotional competency,responding to school and family life challenges,fostering positive peer relationships, communicating effectively and strategies for effective, positive discipline in the middle years, are some of the topics addressed.



#### Ewa Janowska

Project Manager at Science and Art Events Lab <u>Copernicus Science Centre</u> Warsaw Poland

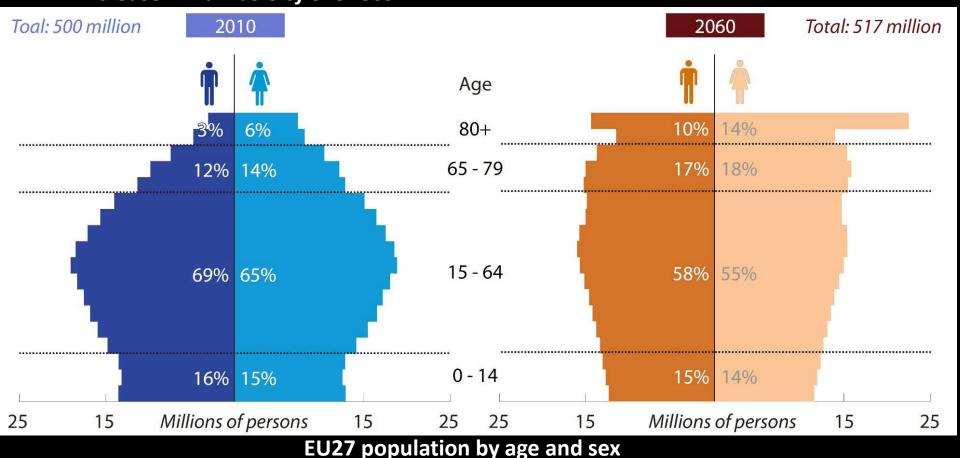
"I feel like I can fly." "I love this place and don't know why I come here so

late." "Again I can feel like a very young woman asking lot of questions". Although seniors who come to Copernicus Science Centre are very pleased about their visit, even tough they are only 1.4% of our public. Usually they are thinking about themselves as grandparents focusing on arranging good time for grandchildren. They simply don't know why Copernicus is also a place dedicated to them. We are trying to improve contact with older public in two ways. First, constantly making our offer better according to seniors needs and expectations. Second, we are inviting seniors as mentors, experts and

### Why engage seniors?

#### Longevity Revolution

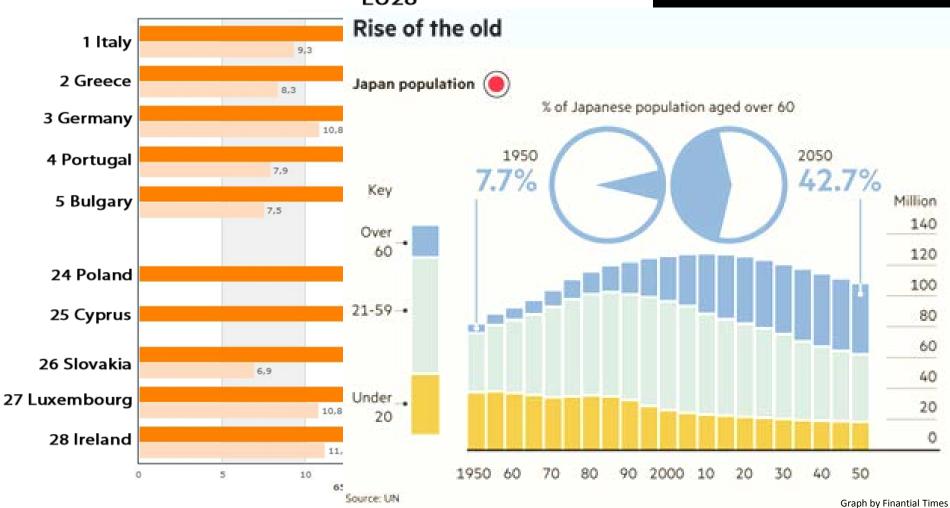
"ageing is one of the greatest social and economic **challenges** of the 21st century for European societies. It will affect all EU countries and most policy areas. By **2025 more than 20% of Europeans will be 65 or over**, with a particularly rapid **increase in numbers of over 80s.**"



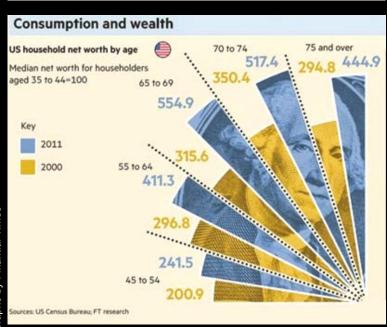
#### Longevity Revolution







# Consumption and wealth EU household spending growth Growth in average nominal consumption expenditure, by age of householder, 1988-2010 (%) Key Aged 60 or over Aged 30 to 44 France Aged 30 to 44 Source: Eurostat



## Silver Economy

End of 2017
70% of disposable income in the USA will be in the hands of people over 60

years

What should be the positioning of SCM's?

hs by Finantial Times

## Silver Economy

Active and healthy ageing offers also great opportunities.

If we are prepared to change our systems for health and social care, we can benefit from those. Today Europeans over 65
have a spending capacity of
over €3,000 billion 6 6



Europe has what it takes to benefit from these new opportunities





## What are the new "silver products and services"?

Solutions to promote autonomy, regular activity and health for seniors!





Health Literacy Active Ageing Digital Literacy

## How to engage seniors?

**Active ageing** 

Sharing Experience(s)

Volunteer

Hands-on and Minds-on Activities

Life / Skills Experiences

Volunteering

Health Literacy

Intergenerational programs

Citizen Science projects



## How to engage seniors?





program in science communication and outreach for senior citizens (since 2014)



#### Science Has No Age



Hands-on and Minds-on Activities

Molecular cooking
Photography
Light Painting
Microscopy
Chemical reactions
Botany
Cosmetics

Shells - Bivalves and Gastropods
Bees & Honey
Pin hole
Organic Pigments
Microwave Cooking
Science Talks
Math and Biology of knitting



#### Science Has No Age

2 Municipalities involved



Lagos active ageing program



health literacy

vaccines healthy food plants and health others

cognitive and neurological stimulation

Molecular cooking Photography Light Painting Microscopy Chemical reactions Botany



#### A CIÊNCIA NÃO TEM IDADE















## CICIO Silves O III A CIÊNCIA NÃO TEM IDADE



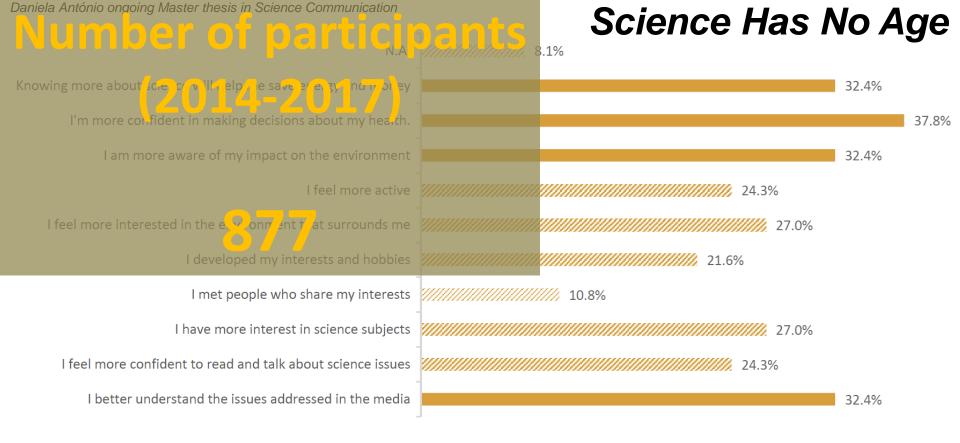












#### Benefits of participation in activities, identified by participants.



## **Me** <u>U</u> D



#### entro Ciência Viva de Bragança Centro Ciência Viva de Guimarães Centro Ciência Viva de Vila do Conde Galeria da Planetário Biodiversidade do Porto Centro e Jardim Botânico Centro Ciência Viva Fábrica Centro Ciência Exploratório 6 Centre Ciência Viva de Coimbra entro Ciência Viva da Floresta Proença-a-Nova Carsoscópio Centro iência Viva do Alviela Centro Ciência Viva Centro Ciéncia Pavilhão Centro Ciência Viva Calouste Gulbenklan Centro Ciáncia Viva Mina de Ciência Centro Ciência Expolab Centro Ciência Viva São Miguel Centro Ciència Viva do Algarye

## **Ciência Viva Science Centres**

#### Ciência Viva Science Centres as a national network (21)

Every Centre offers a different experience, integrated in the heritage, history and tradition of the region, in touch with the local community.







Program time for peer socialization







Start from the group's interests and experience/expertise





Be aware of physical and cognitive specificities of this group





#### Most relevant aspects to consider

**Motivation** management

Generate **empathy** both with the team, scientist or facilitator

Adequate topic selection

Start from the group's interests and experience/expertise

Select carefully the partners and stakeholders to work with

Be aware of physical and cognitive specificities of this group

Program time for **peer socialization** 

#### Thank you for your attention!



CIÊNCIA **SCIENCE CENTRE** 

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