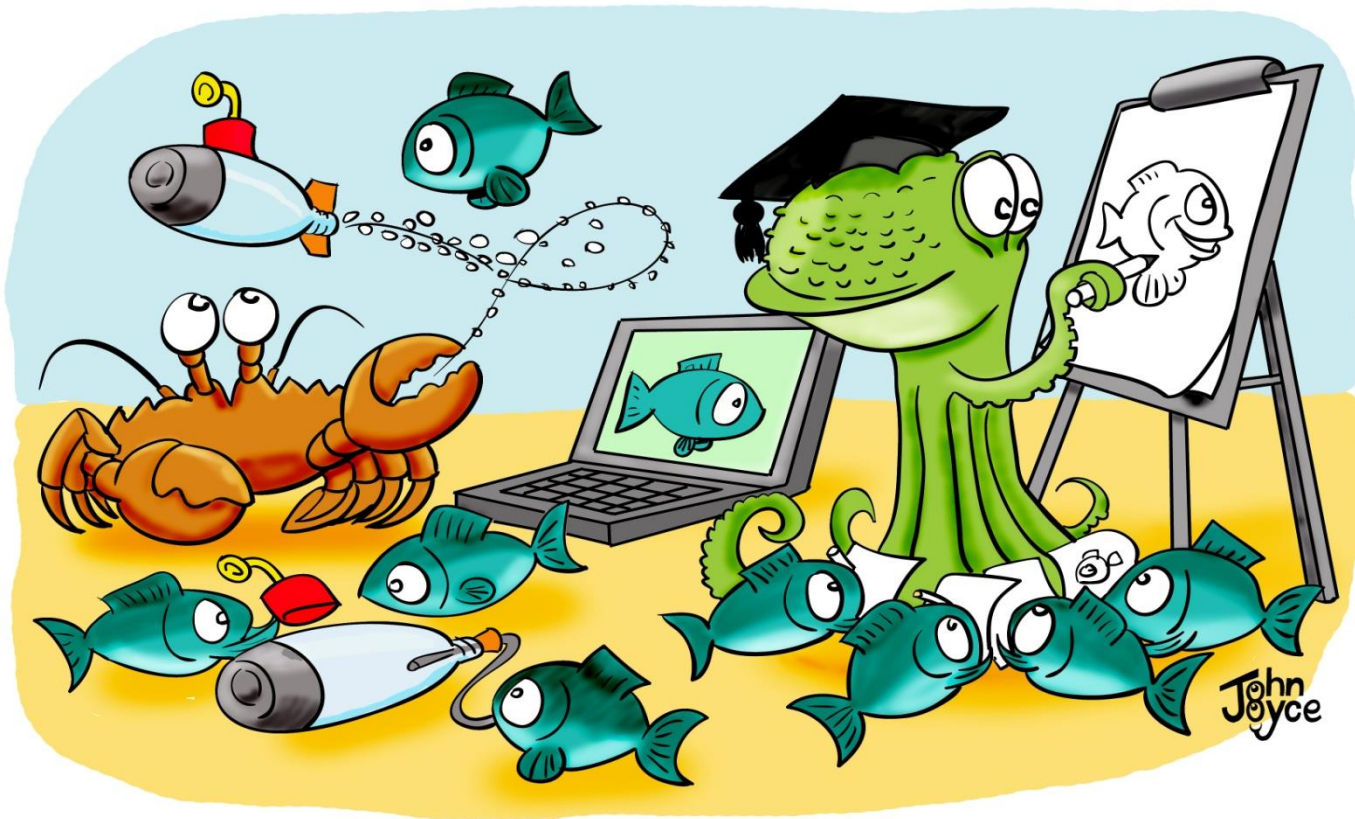


Designing Ocean Literacy Programmes that WORK



**John
Joyce**

John
Joyce

How did you choose your career?

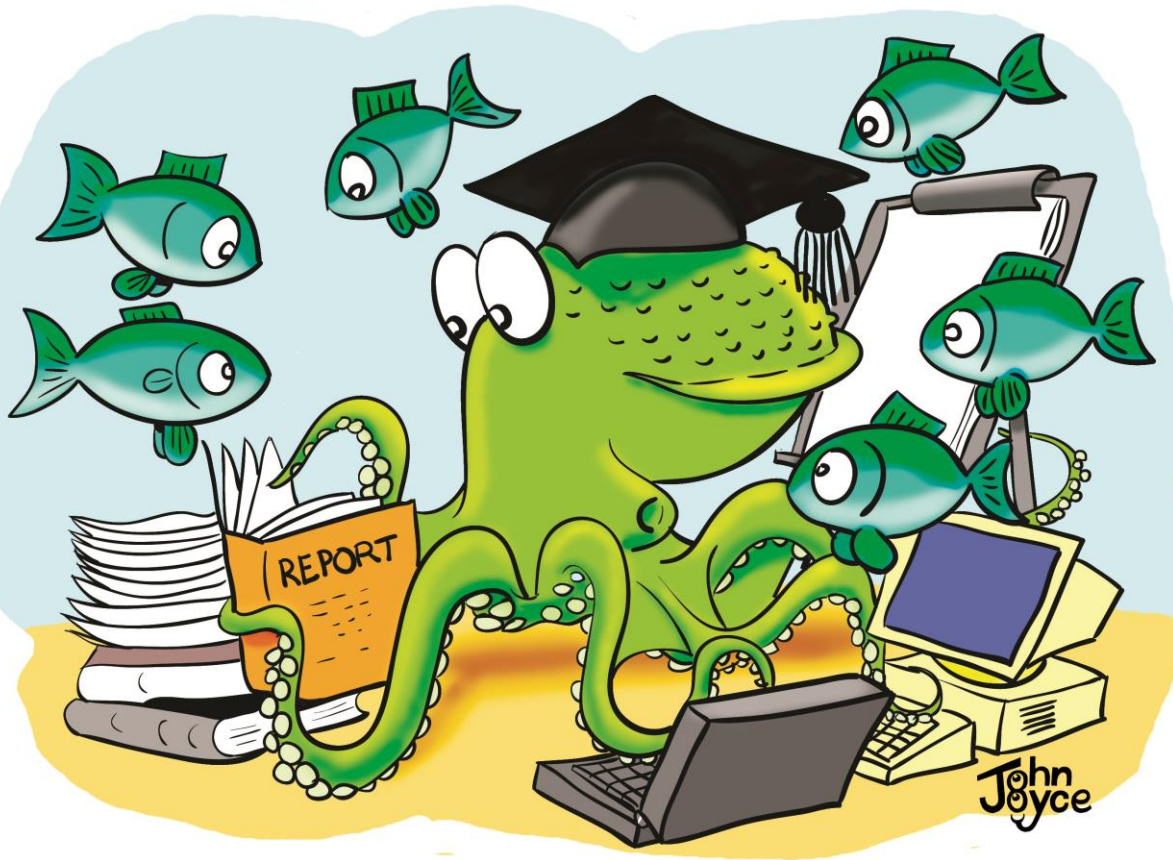




One Day... all this may come to pass
in God's good time.



POINT 1: REVIEW WHAT'S BEEN DONE BEFORE





POINT 1: REVIEW WHAT'S BEEN DONE BEFORE

- Young people decide on careers EARLY! (Forfas)
- Department of Marine
(Lesson Plans by Alison Graham)
- Sherkin Island Marine Station and Connemara
Education Centre - Letterfrack
(Fish Tanks in Schools)
- Planet Aqua - by AQUATT



AQUATT
Science. Communication. Knowledge. Innovation.



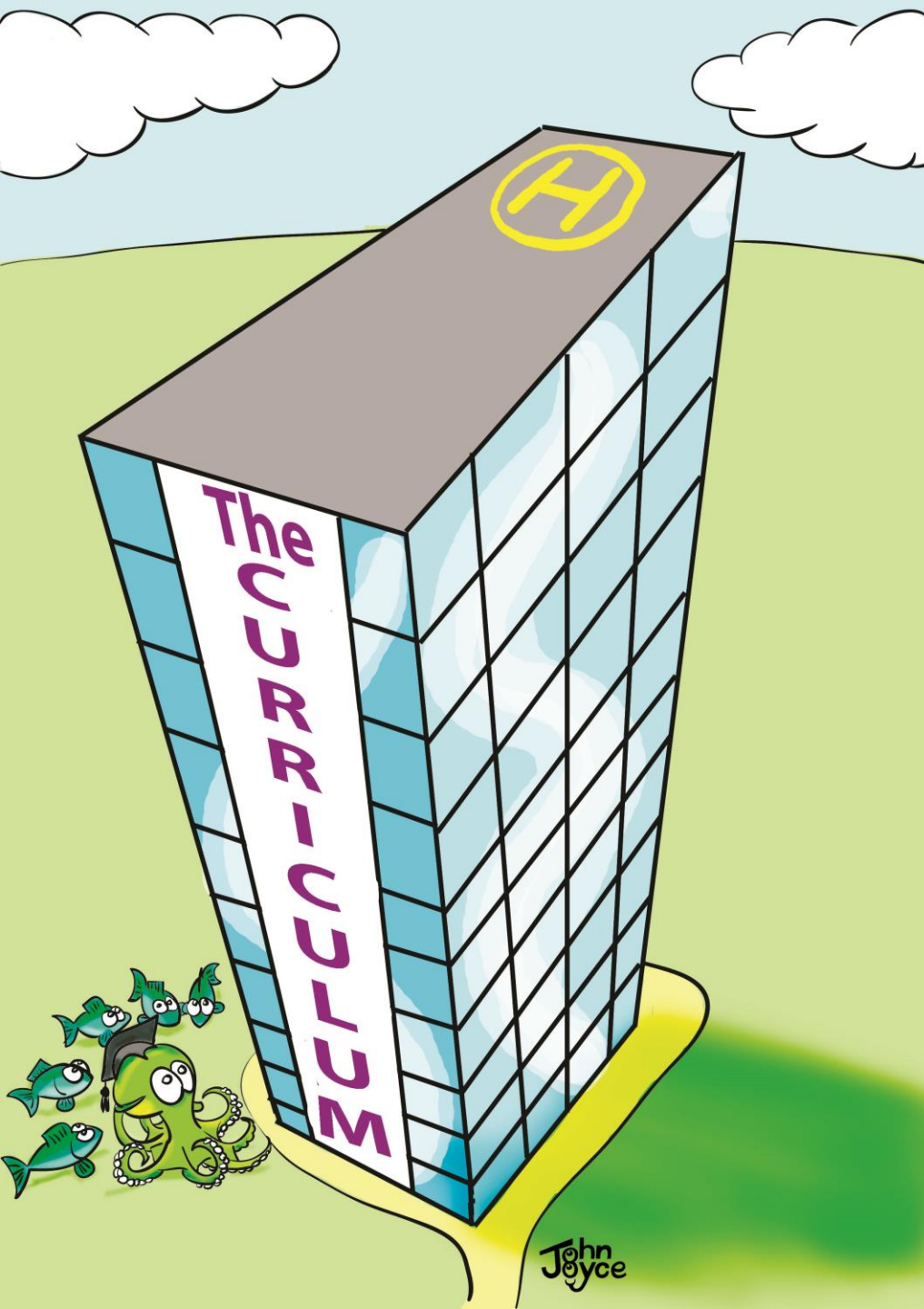
Planet Aqua

- Wide range of interested public and private partners
- Targeted to complement the SESE Primary Curriculum
- Major interactive exhibitions in Dublin and Cork - 2006
- 3,000 Ring-bound teachers' manuals - 2007
- Interactive web site www.planetaqua.ie



POINT 1: REVIEW WHAT'S BEEN DONE BEFORE

- Young people decide on careers EARLY! (Forfas)
- Department of Marine (Lesson Plans)
- Sherkin Island Marine Station / Letterfrack School (Fish Tanks in Schools)
- Planet Aqua - by AQUATT
- **Talked to a group of local science teachers . . .**



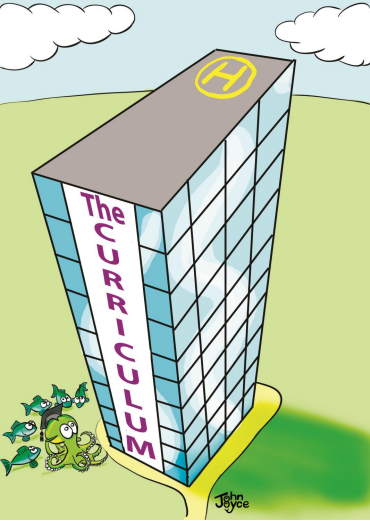
POINT 2: ADAPT YOUR MATERIAL TO THE NATIONAL CURRICULUM

"If it's not on the curriculum - we can't teach it!"

Ireland: SESE

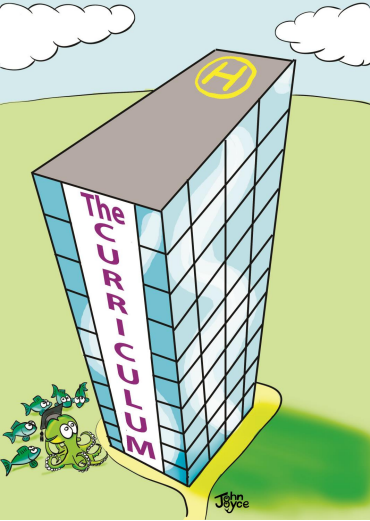
UK: Key Stage

USA: K-12



POINT 2: ADAPT YOUR MATERIAL TO THE NATIONAL CURRICULUM

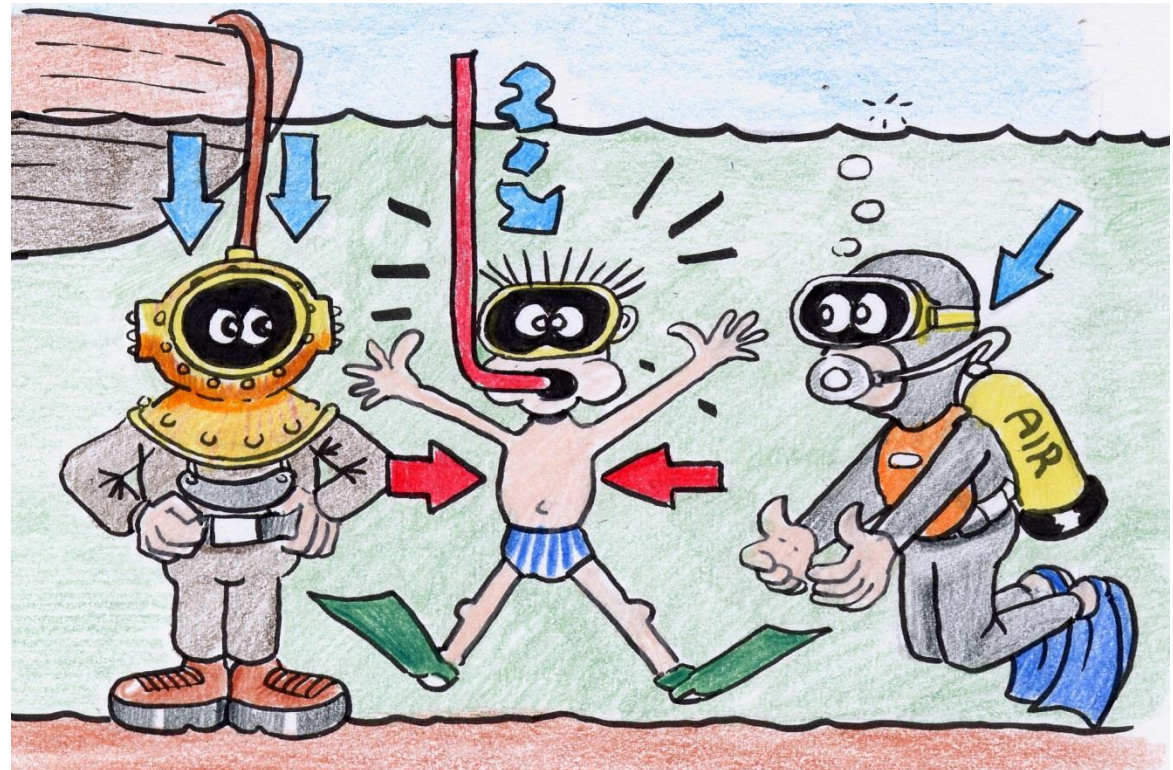
- Spoke to Governing Body - "National Curriculum is difficult to change / Many competing interests/ Too specialised to appear on its own!"
- So ... **TOOK THE EXISTING CURRICULUM STRANDS AND 'MARINISED' THEM !**



POINT 2: ADAPT YOUR MATERIAL TO THE NATIONAL CURRICULUM



e.g. 'ENERGY & FORCES' = 'PRESSURE'



POINT 2: ADAPT YOUR MATERIAL TO THE NATIONAL CURRICULUM

e.g. 'HISTORY' = 'MARITIME HEROES'

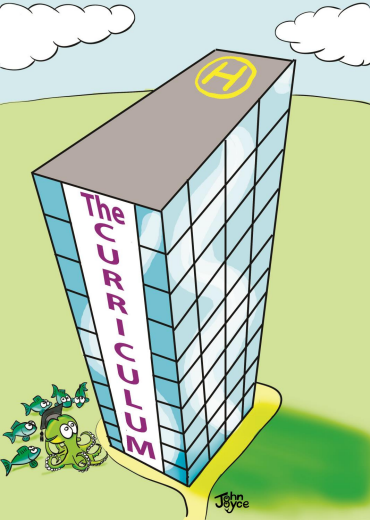


Grace O'Malley

St. Brendan



John Phillip Holland



POINT 2: ADAPT YOUR MATERIAL TO THE NATIONAL CURRICULUM

e.g. 'ECOLOGY' = 'SEASHORE'



**POINT 3:
PROVIDE
APPROPRIATE
AND
ATTRACTIVE
SUPPORT
MATERIAL**





POINT 3:

PROVIDE APPROPRIATE AND ATTRACTIVE SUPPORT MATERIAL

- Ring-bound folders for teachers
- Practical Lesson plans
- Workbooks
- Photocopyable exercises for pupils
- Smart board lesson plans
- E-book material
- Blogs to connect the schools
- Web: www.marine-ed.org/bridge/ (NMEA)
- www.visitsealife.com/brighton/schools-and-groups/schools/ (SeaLife)
- www.virtualmarinescientist.com/ (VLIZ)
- www.explorers.ie (Marine Institute)

Services Research Funding Publications and Data Education & Events

Education & Events > Education > Lesson Plans > Lesson Plans

Explorer Lesson Plans

Illustration © John Joyce, 2009

Ireland is an island with a seabed territory of 220 million acres, a long and eventful seafaring history and a rich maritime tradition in the arts. Therefore, the seas and oceans offer many opportunities to introduce cross-curricular lessons and activities when teaching subjects such as science, history, geography and design & making, music and language. See the following links to pages that contain lesson plans, worksheets and activities available to download.

Lesson Plans, Worksheets and Activities:

The Real Map of Ireland - Ireland's Marine Resource

Through the SESE Geography syllabus teachers can introduce "The Real Map of Ireland" to students and learn about Ireland's 220 million acre marine resource.

Published: 23 Dec 2009

[Continue Reading](#)



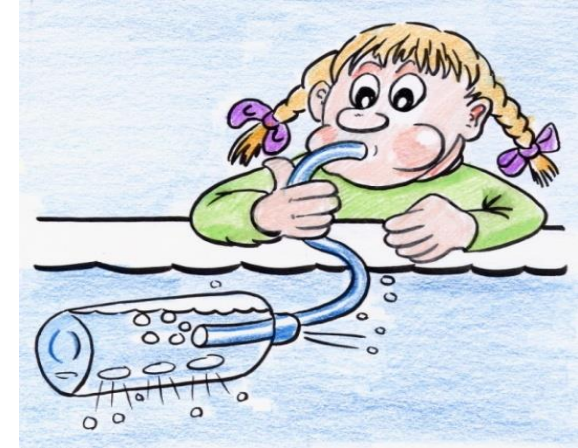
POINT 4:

**PROVIDE A
'HANDS ON'
EXPERIENCE**



POINT 4:

**PROVIDE A
'HANDS ON'
EXPERIENCE**



- Practical experiments for pupils
- Fish tanks in schools

Training for teachers ('Week of the Sea')



POINT 5:

**ASSEMBLE A
WINNING TEAM**



POINT 5:

**ASSEMBLE A
WINNING TEAM**



**Externally - Outside Partners with common interests
(and hopefully some cash!!)**



GALWAY EDUCATION CENTRE
Ionad Oideachais na Gaillimhe



Discover
Primary
Science
and see how your world works
agus déan scrúdú ar an domhan atá thart ort
www.primaryscience.ie



Blackrock Education Centre
Ionad Oideachais na Carraige Duibhe





POINT 5:

ASSEMBLE A WINNING TEAM

Internally you need:

- *Visionary / Leader*
- *Extrovert Expert Educators*
- *An Efficient Manager (with contacts) and . . .*
- *A Financial Shark*





POINT 6:

**ENSURE
SUSTAINABLE
FUNDING**

POINT 6:

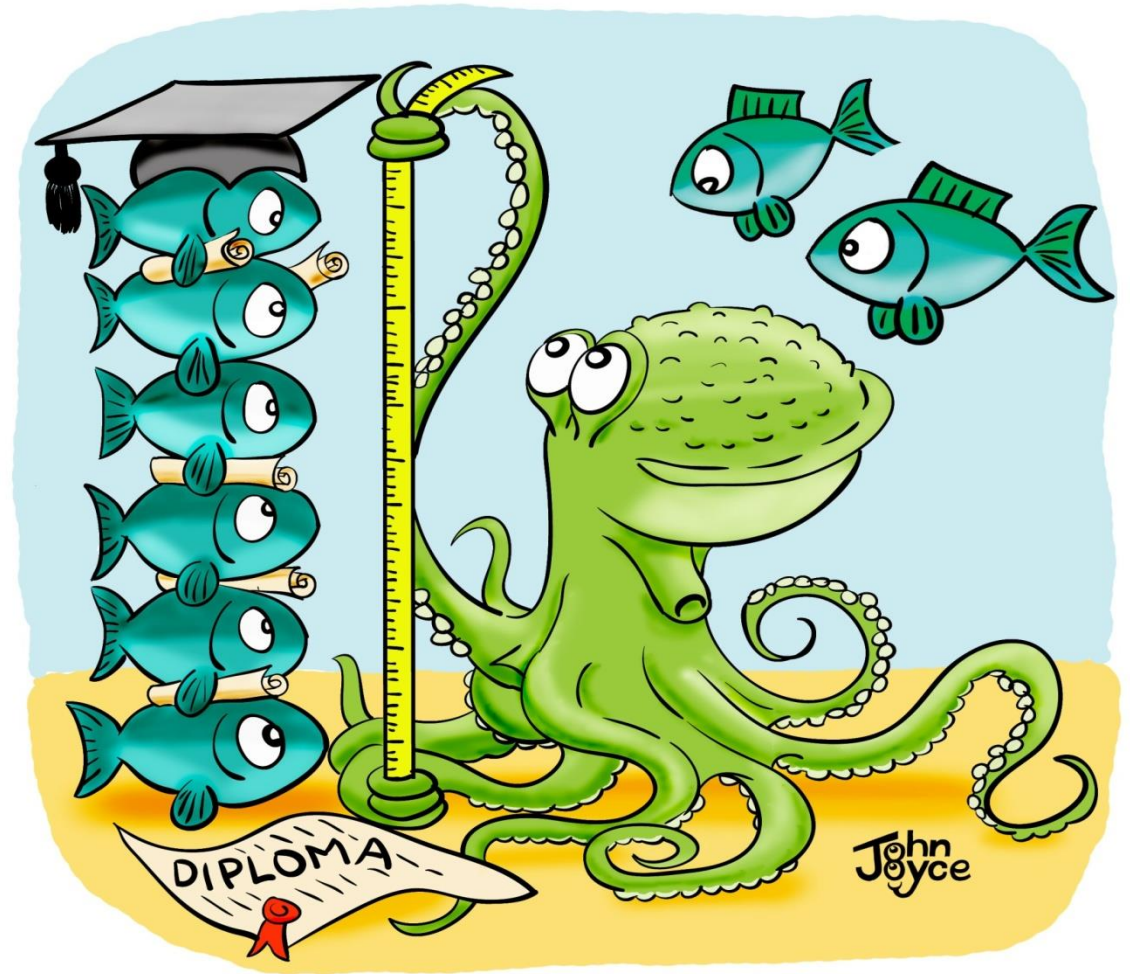
ENSURE SUSTAINABLE FUNDING

- *Engage with as many relevant partners as possible*
- *Ensure the material is linked to the curriculum*
- *Have realistic expectations and*
- *Measurable goals to demonstrate success*



POINT 7:

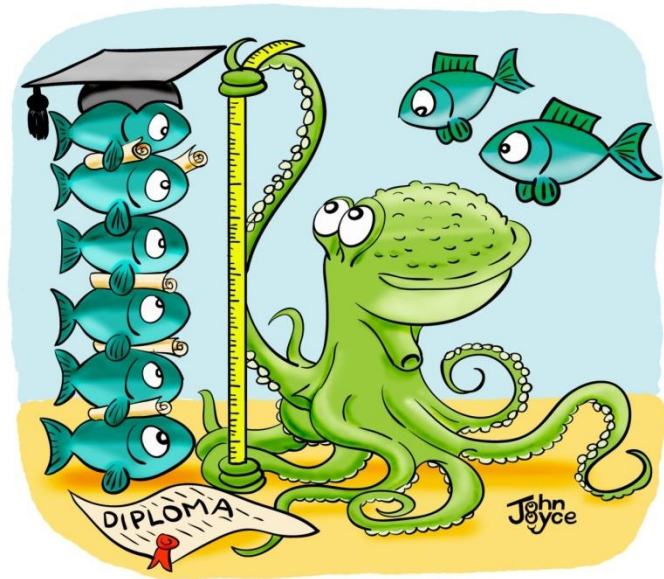
**CREATE CLEAR
GOALS AND
MEASURES FOR
SUCCESS**



POINT 7:

CREATE CLEAR GOALS AND MEASURES FOR SUCCESS

- Real Benefits of outreach programmes are long term (although PR benefits are immediate)
- Results are difficult to measure in hard terms
- Organisations have critical areas demanding funding
- Outreach programmes tend to be low priority





sea for
SOCIETY.  eu
TOWARDS A BLUE SOCIETY

What are people's
views now?

How can we influence
behaviour?

How can we achieve a
'BLUE SOCIETY'

COLLECTIVE INTELLIGENCE



www.seaforsociety.eu

SEA CHANGE

OUR OCEAN | OUR HEALTH

OBJECTIVES OF 'SEA CHANGE' are to . . .

- **Create a deeper understanding of how human health depends on the health of our seas and ocean.**
- **Bring about real actions using behavioural and social change methodologies.**
- **Implement mobilisation activities focused on education, community and governance actors - directly targeted at citizens.**
- **Assess the effectiveness of these actions which, in turn, will allow the project to improve its techniques and spread a “Sea Change” in behaviour across Europe.**

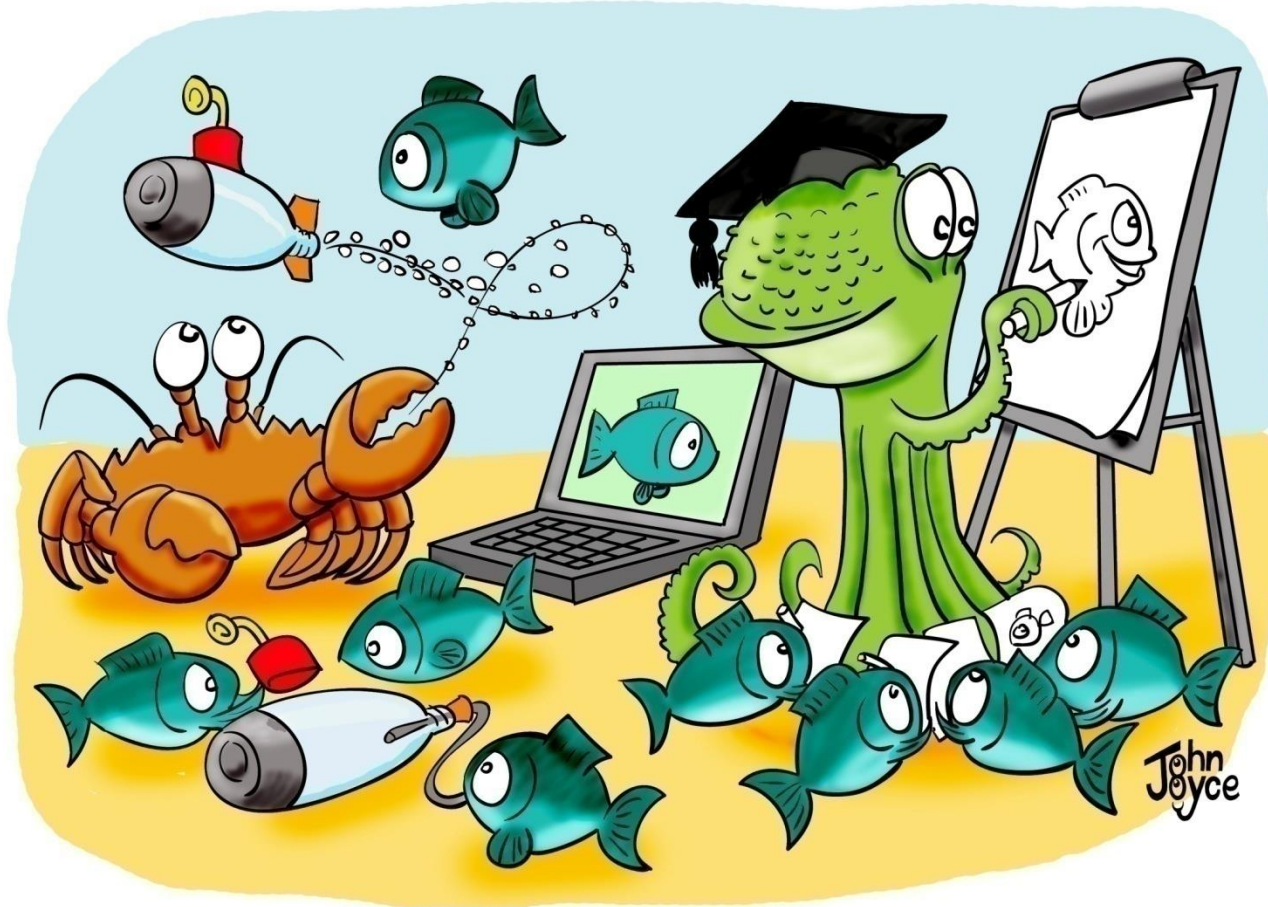
How did you choose your career?



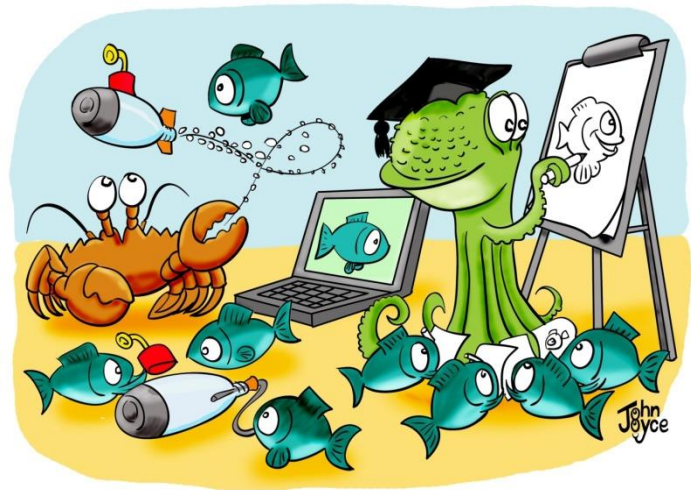
POINT 8 :

**MAKE
SURE
IT'S**

FUN!



John
Joyce



POINT 8 :

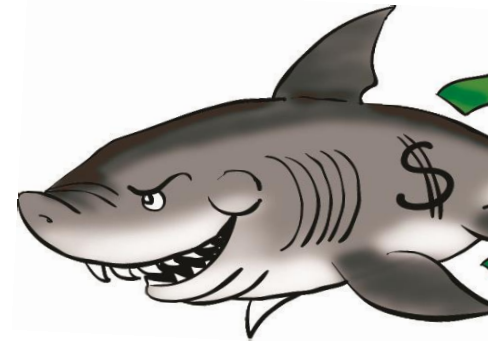
MAKE SURE
IT'S . . .

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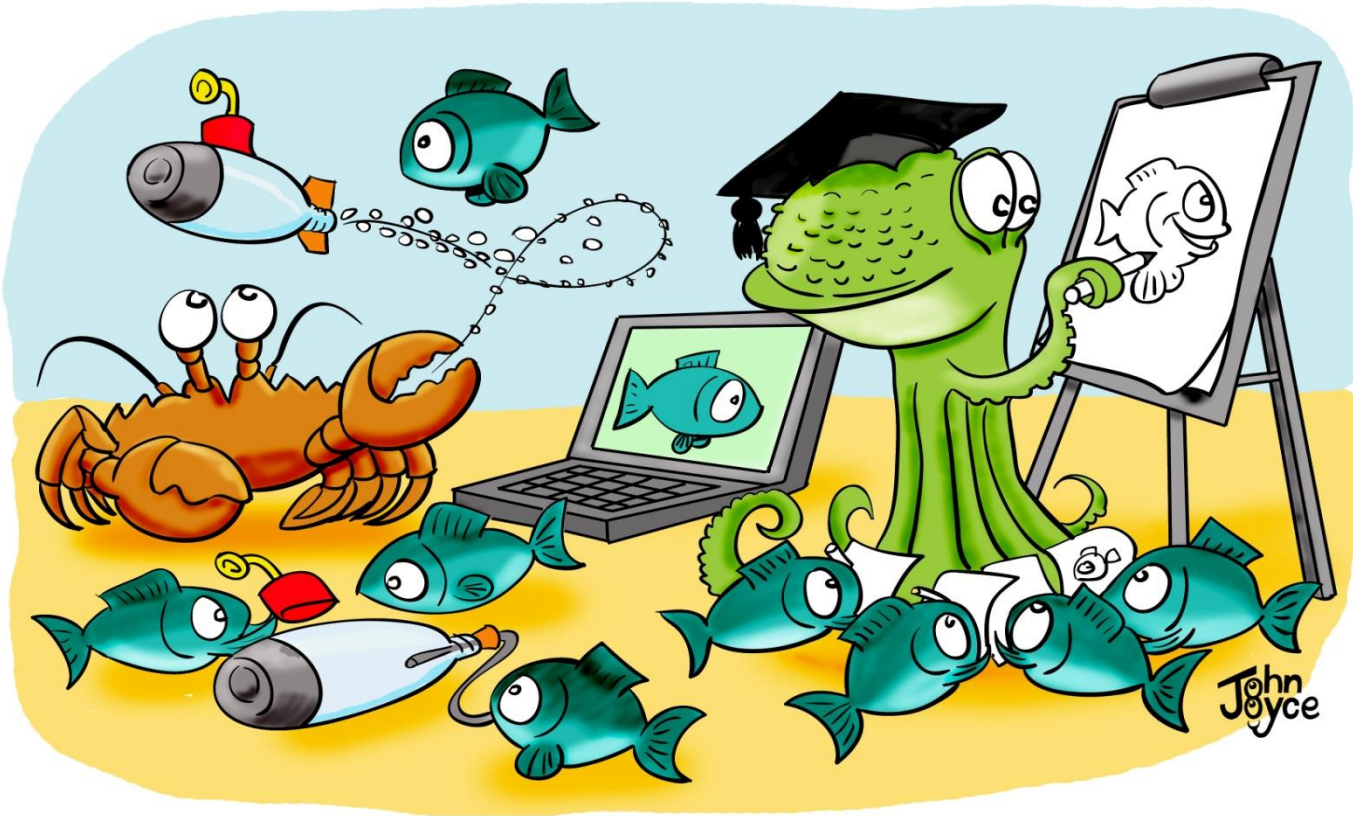
FUN!



1. Review existing material to see what works
2. Link Marine Subjects to the Curriculum
3. Provide Appropriate, Attractive Support Materials
4. Create 'Hands On' experience for pupils and teachers
5. Assemble a winning team
6. Ensure sustainable funding
7. Set Clear and Measurable Goals
8. Have Fun . . .



Designing Ocean Literacy Programmes that WORK !!



**John
Joyce**

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