



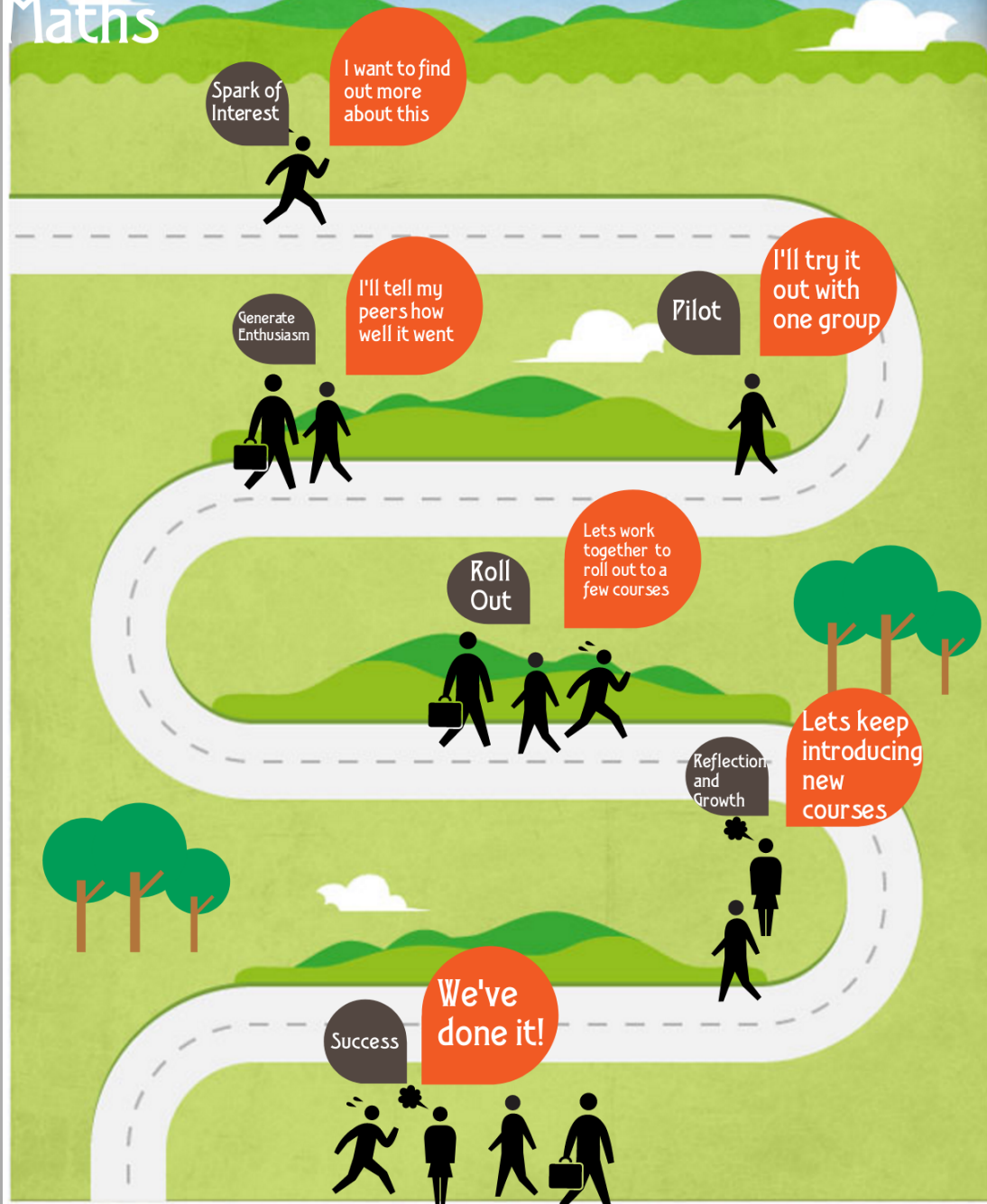
# Positioning to E-Assessment in Mathematics Educ

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A joint project between University College Cork and Cork institute of Technology funded by the National Forum of the Enhancement of Teaching and Learning in Higher Education.

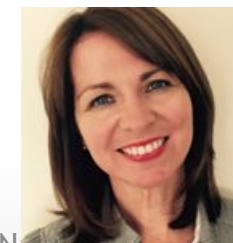
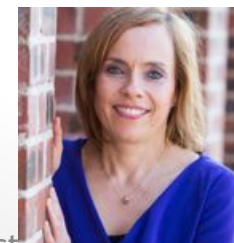
# Transitioning to e-assessment in Maths



## Today I'd like to talk about

- What was the TEAME project
- What did we do?
- What has happened since the end of the Project in December 2016?
- Current attitudes towards and usage of Numbas in CIT. Results of a recent survey.

- A joint initiative between University College Cork and Cork Institute of Technology.
- Funded by the National Forum for the Enhancement of Teaching and Learning in Higher Education (Ireland) through the Teaching and Learning Enhancement Fund 2014.
- Julie Crowley & Áine Ní Shé CIT and Tom Carroll & Kieran Mulchrone, UCC
- Team: Viv Terhorst, David Browne, Deirdre Casey





# Why did we decide on e-assessment?

- Manage Lecturers workload
- Make regular assessment more practical
- Provide Immediate Feedback
- Record Marks directly to the Virtual Learning Environment
- Improve students' Digital Literacy

# Why Numbas?

- Free
- User Friendly, for both students and lecturers
- Each student sits a slightly different exam
- Show Hints
- Can Imbed instructional videos
- Can imbed interactive content eg. GeoGebra



# What did we do?

- Created Numbas Questions.
- Gathered these questions into exams and tested them.
- Spent time trying to design the tests as a learning opportunity.
- Trained other interested staff.
- Wrote an Implementation guide and sent it to every Maths department in Ireland.
- Created the [teame.ie](http://teame.ie) website with resources and test to try out.

# Funding Ended in 2016...What happened when the dust settled?

- The use of Numbas continues to receive great support from leadership within the Maths department.
- Currently 6 large modules are using Numbas as part of continuous assessment.
- Use for practice/tutorials in some other modules.
- Used as part of the “CIT Maths Online” Module.
- There are 4 People sharing responsibility for the provision of Numbas support to the Maths department.

# Results of a recent Survey

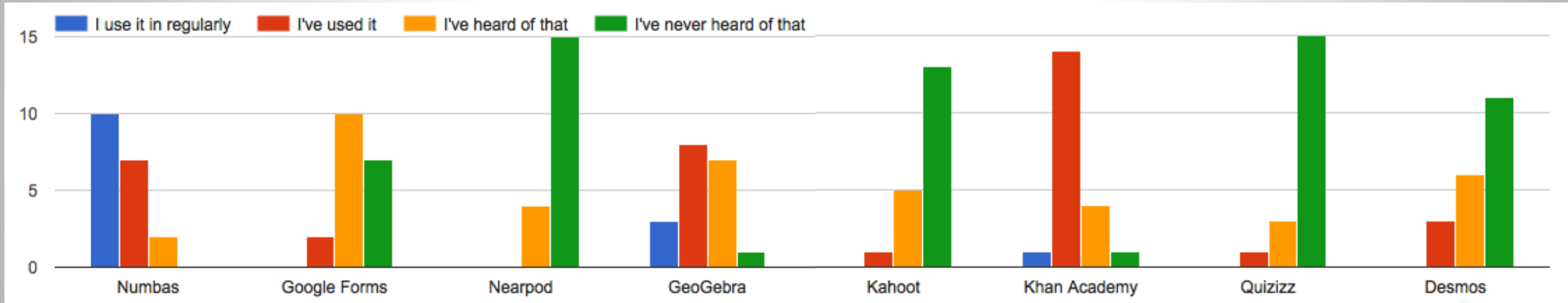
- A Survey was conducted on the use of Education Technology within the Maths department in CIT in May 2018.
- Lecturers were asked what they perceived to be the advantages and disadvantages of using edTech in Maths Lecturing.
- Lecturers were asked to rate their familiarity with various edTech tools.



What advantages do you feel there are to using education tech in your lecturing?

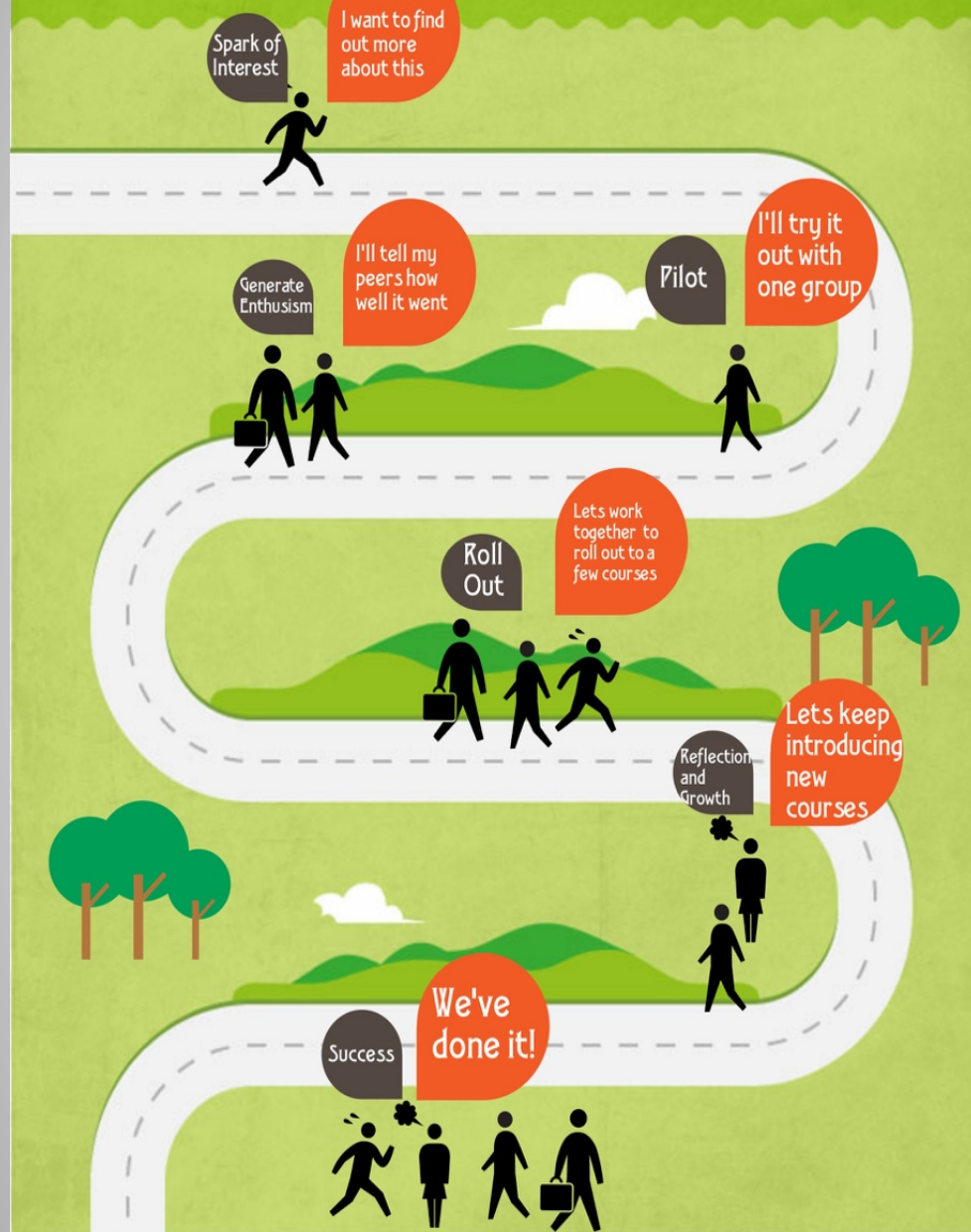
- “Students seem more interested in a topic if it includes technology. For example, they like to practice questions on Numbas but not the same questions from an exercise sheet.”
- “Students are more engaged when technology is incorporated (Numbas v pen & paper), helps with visualising topics such as graphs (e.g. GeoGebra - what happens a function when a number is changed).”

# What is the current usage of a range of technologies?



There is far more awareness and use of Numbas within the department than any of the other Education Technology tools.  
 10 out of the 19 respondents use Numbas regularly.

# Transitioning to e-assessment in Maths



## Reflection and Growth

- Keep Learning.
- If you're not moving forwards you are moving backwards!