



# Oide

Tacú leis an bhFoghlaim  
Ghairmiúil i measc Ceannairí  
Scoile agus Múinteoirí

Supporting the Professional  
Learning of School Leaders  
and Teachers

## Session 5

ALT1

Investigate and Plan





# By the end of this session

Participants will be enabled to:

- work in groups to share and evaluate potential ideas for ALT 1
- collaborate on developing one potential idea for ALT 1 further
- acquire additional skills, knowledge and ideas on how to facilitate ALT 1 in their own classrooms
- enhance their understanding of the Investigate and Plan stages of the Design Process with a particular focus on ALT 1



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## Introduction to ALT1 (recap)





## ALT 1

*"Design is one of the key practices and principles of computer science. As designers and creators of technology, students can be innovative and expressive through the creation of artefacts."*

*"Students will develop an interactive website that can display information (either local or remote data) from a database to meet a set of user needs."*

*"Students will develop their knowledge of the role computer systems can play in communicating with and providing information about the world around them."*

LCCS Specification: p22



# ALT 1: Learning outcomes

Students learn about:	Students should be able to:
Information systems User-centred design Web design File systems and <b>relational</b> databases Design process	3.1 understand and list user needs/requirements before defining a solution 3.2 create a basic <b>relational</b> database to store and retrieve a variety of forms of data types 3.3 use appropriate programming languages to develop an interactive website that can display information from a database that meets a set of users' needs



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## Group activity

Developing an ALT 1





# The Design Process

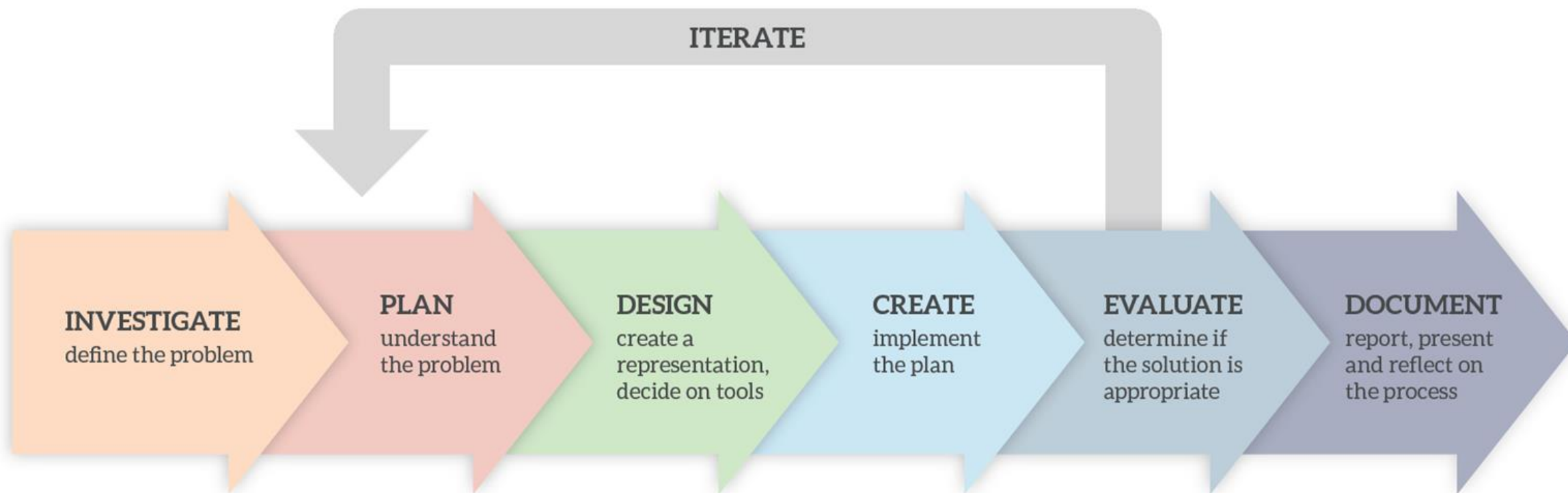
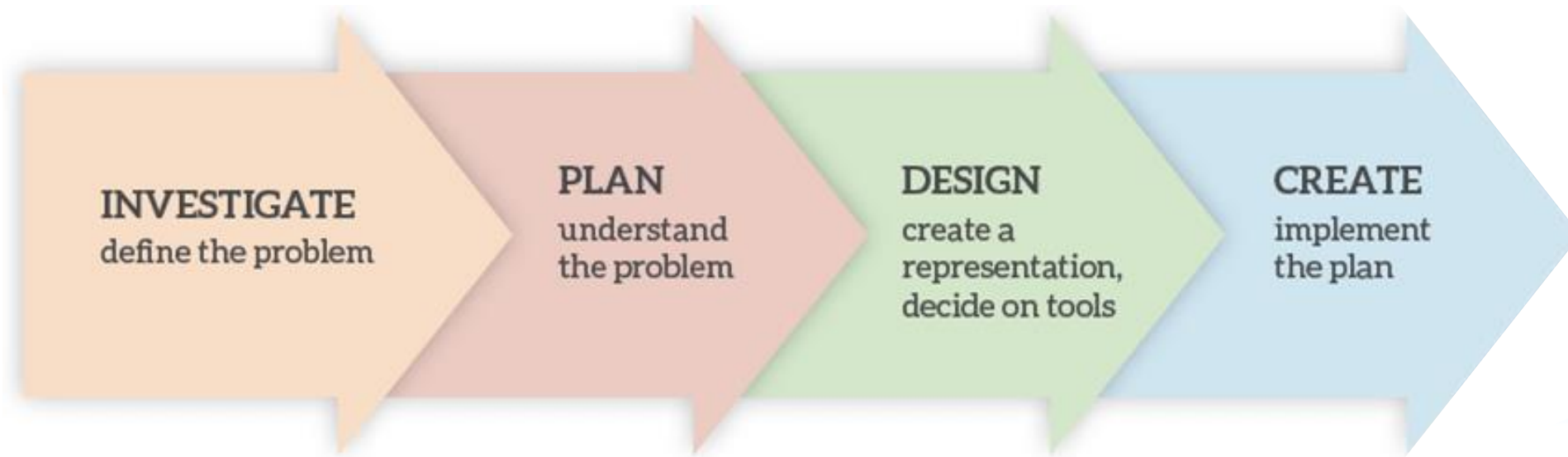


Figure 3: Overview of a design process



# The Design Process







# The Design Process

**1**

**INVESTIGATE**  
define the problem



# ALT1: Investigate

In your assigned groups, share potential ideas for ALT 1

Aim for as many ideas as you can

Record your ideas in your Professional Learning Booklet

Nominate a timekeeper, notetaker, chairperson and spokesperson



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# The Design Process

2

**PLAN**

understand  
the problem



# ALT1: Plan

In your assigned groups, evaluate your potential ideas for ALT 1

Choose one idea for further development

Continue to record your work in your Professional Learning Booklet



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# ALT1: Plan

What will your project do? Aims? Limitations?

Who are the end users and how will they interact with it?

Is there a broad theme or a specific topic?

Tools/materials... what technology could you use?

What is new and must be researched further?

What other LOs can be taught through the lens of this project?



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# ALT1: Plan - Feedback

What will your project do? Aims? Limitations?

Who are the end users and how will they interact with it?

Is there a broad theme or a specific topic?

Tools/materials... what technology could you use?

What is new and must be researched further?

What other LOs can be taught through the lens of this project?



P30



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An Roinn Oideachais  
Department of Education



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