Week 3 – Evaluating Emerging Technologies

# Case study

A farmer needs to **measure** the **amount of water in his soil**.

Online he has seen it is possible to set up some “**Raspberry Pi**” computers with **water sensors** to provide real time data. He understands technology and believes he could follow the YouTube videos on how to do it. Currently he checks moisture levels by visiting the fields and manually feeling the soil.

As a class, watch this video to get an understanding of the setup of the Raspberry Pi and the water sensors

<https://www.youtube.com/watch?v=9LxrX5Eeukg>

# Part 1 – Group Discussion

## 1 - Technological merit

Discuss within your group whether the proposed Raspberry Pi solution has any merit.

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| Discussion Notes |

## 2 - Technological objectives and significance

Will the Raspberry Pi achieve what the farmer requires?

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| Discussion Notes |

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## 3 – Interest in the technology

Is this something that other people will be interested in? Could there be a market for it?

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| Discussion Notes |

## 4 – Uniqueness in the technology

Is the technology unique? Are there any commercial products offering this available?

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| Discussion Notes |

## 5 – Future Potential

Does this solution offer any future offerings? Can it be developed and used for other purposes?

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| Discussion Notes |

# Part 2 – Class Discussion

As a class each group will discuss their notes and opinions.

At the end of the discussion, decide as a group whether the Raspberry Pi solution is worth pursuing