

Background to the project

- 1. Bottom line: saving lives and preventing injury.
- 2. Client: Merseyside Fire and Rescue Service:
 - 1. Allocating resources to respond to an emergency.
 - 2. Modelling to allocate resources getting it right!

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- 3. Linear modelling the conventional approach.
- 3. House fires unexpected occurrences.
- 4. Need for more accurate models.

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The Challenge

- 1. Identifying where house fires may occur in the region.
- 2. Prediction of future house fires (and particularly out-ofcontext house fires that appear as random events now that we do not expect).

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- 3. Ensuring that resources are:
 - 1. where they are likely to be needed,
 - 2. when they are likely to be needed and,
 - 3. in the right quantity that may be needed.
- 4. Value for money!
- 5. <u>Preventing possible death and injury</u>.

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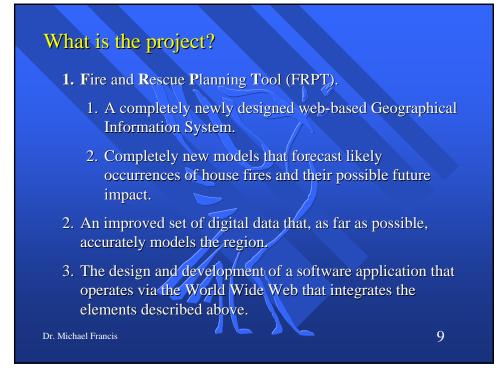
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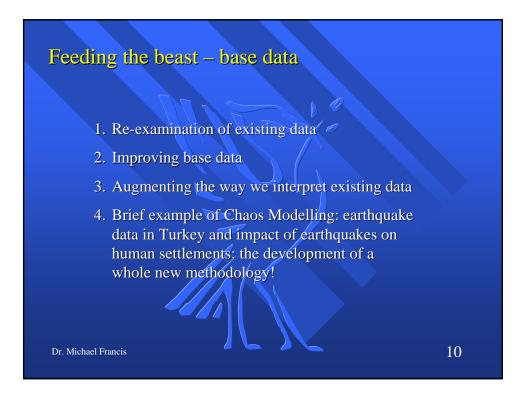
Objectives of the project

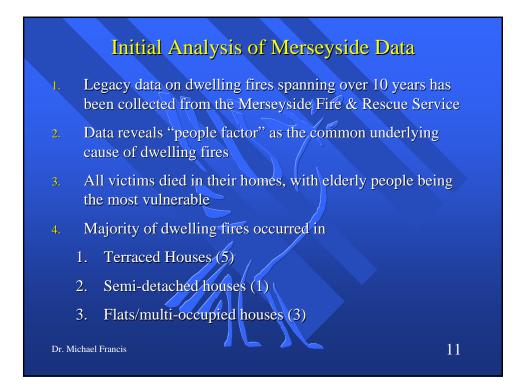
- 1. Enable FRPT to forecast potential house fires.
- 2. Ensuring that this project has the potential to impact positively on current approaches to planning fire and rescue service response to house fires.
- 3. Improve resource allocation and reduce overheads whilst increasing prevention of death and injury from house fires.
- 4. Provide a more flexible and responsive planning model that can be commercialised.
- 5. Provide potential to integrate with other Fire and Rescue Services both in the UK and internationally.
- 6. Enable improvements to be made in fire response planning.

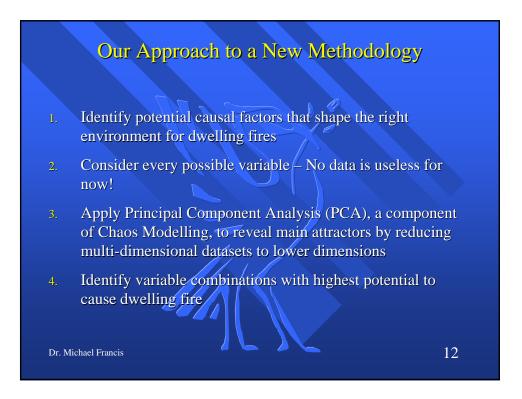
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Developing the Beast: Web-based GIS Tools

- 1. Outcome: A state-of-the-art WWW-based GIS with Modelling opportunities to predict future house fires (and random / out-of-context house fires that we do not expect.
- 2. Project team supervised by senior academics with extensive technical development experience.
- 3. 12-month project with clearly defined key stages.

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