

## OVERVIEW

PP2 Impacts



PP1 Coping  
Measures

To develop a prototype web-portal for mapping extreme weather events and their impacts in order to develop and support improved local community resilience.

Stakeholders

PP4 Hazards

WISP



Decision makers



SMEs

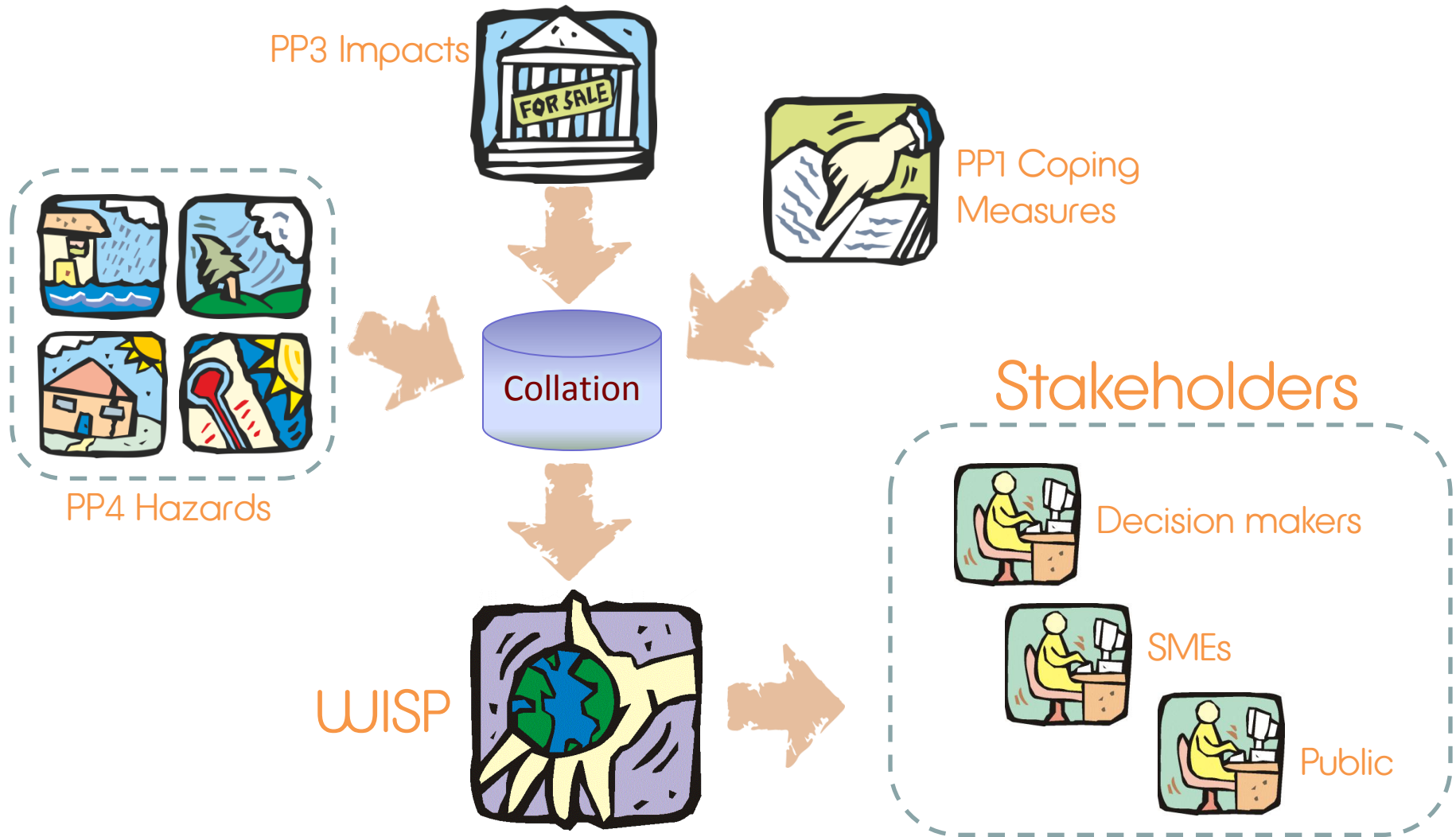


Public



# PP5: WISP - 'What-If? Scenario Portal'

## OVERVIEW

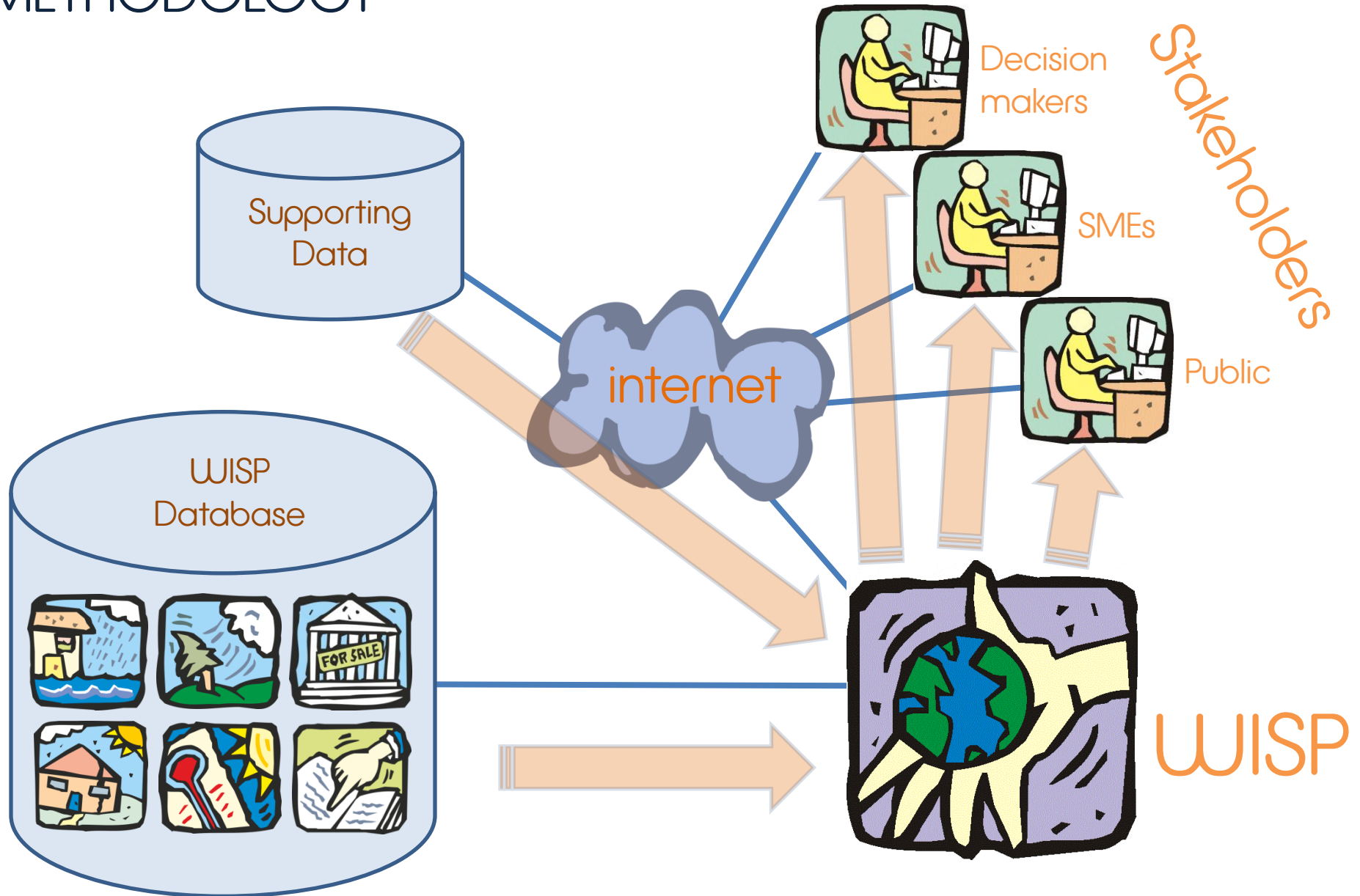


## METHODOLOGY

- Identify appropriate stakeholder requirement scenarios.
- Review and select from both open-source and proprietary server and client side technologies.
- Review and select from both open-source and proprietary technologies
  - Server – ArcGIS Server, ArcSDE, Oracle, TileCache, GlobalMapper
  - Client – HTML, JavaScript/Ajax, Flash
- Develop prototype wisp tools for the identified scenarios
  - Web mapping and tabular data views with area of interest selection.
  - Analysis, reporting and advanced viewing capabilities.

# PP5: WISP - 'What-If? Scenario Portal'

## METHODOLOGY



## OUTPUTS

Five prototypes created incorporating different technologies to provide functionality specific to each stakeholder type.

- *Householder prototype*
- *Hazard hotspot mapping prototype*
- *Hazard mapping prototype with integrated Google 'StreetView' tool.*
- *House price impacts query prototype*
- *House price impacts mapping prototype*

## Stakeholders



Decision makers



SMEs



Public

## OUTPUTS

### WISP Prototype: Householders

Enter Postcode
br1 4qt
OK

Expand the risks below to view details for BR14QT:

Flooding

Subsidence

2010 dominant subsidence risk

2020 dominant subsidence risk


2050 dominant subsidence risk

- Extremely Low
- Very Low
- Low
- Medium Low
- Medium
- Medium High
- High
- Very High
- Extremely High
- Lake
- Un-assessed

[SubsidenceModelling](#) - Methodology

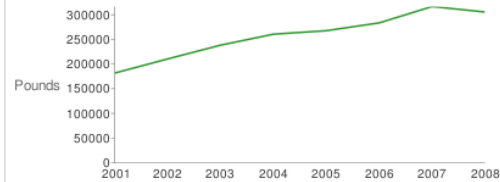
Heat

Wind




Household statistics for Postcode BR14QT

Mean house prices



Year	Price (Pounds)
2001	180,000
2002	200,000
2003	220,000
2004	240,000
2005	250,000
2006	260,000
2007	280,000
2008	300,000

Household lowest floor level



- Basement or semi-basement
- Ground floor (street level)
- First floor
- Second floor
- Third or fourth floor
- Fifth floor or higher

## OUTPUTS

### House Price Impacts query tool

This utility is designed to allow a householder to enter a Postcode Unit for their property to reveal the potential impacts of extreme flood events on their house property price.

*Enter a Postcode* [Hint](#)

For your requested Postcode of:	<b>se9 2pq</b>	
LSOA Code	<b>E01001614</b>	Lower Super Output Area
Population East	<b>544701</b>	Co-ordinates of the population-weighted centroid of a Lower Layer SOA
Population North	<b>174805</b>	Co-ordinates of the population-weighted centroid of a Lower Layer SOA
Postcode	<b>SE9 2PQ</b>	Postcode Unit
Eastings	<b>544424</b>	Eastings
Northings	<b>174440</b>	Northings
2007 House Price	<b>223554.4844</b>	Constant quality typical house prices in 2007
Doubled flood risk price	<b>223554.4844</b>	Simulated house price impacts based on doubling flood risk without feedback effects
Percentage change	<b>0.00%</b>	Percentage change of 2007 house price to simulated house price impacts based on doubling flood risk without feedback effects
Doubled flood risk price with employment effects	<b>222343.1875</b>	Simulated house price impacts based on doubling flood risk with feedback effects of employment
Percentage change	<b>-0.54%</b>	Percentage change of 2007 house price to simulated house price impacts based on doubling flood risk with feedback effects of employment
Doubled flood risk price with employment and deprivation effects	<b>226539.6250</b>	Simulated house price impacts based on doubling flood risk with feedback effects of employment and deprivation
Percentage change	<b>1.34%</b>	Percentage change of 2007 house price to simulated house price impacts based on doubling flood risk with feedback effects of employment and deprivation

## OUTPUTS

### Decision Maker's toolkit

Br1 4qt  Select OK to enter a Postcode [Hint](#)



Double-click on map to update photo



A map of the Lewisham area in London, showing streets like Adelaide Ave, Ivy Rd, and Brockley Grove. A popup window titled "Lewisham University Hospital" is open over the hospital location. The popup contains a table with the following data:

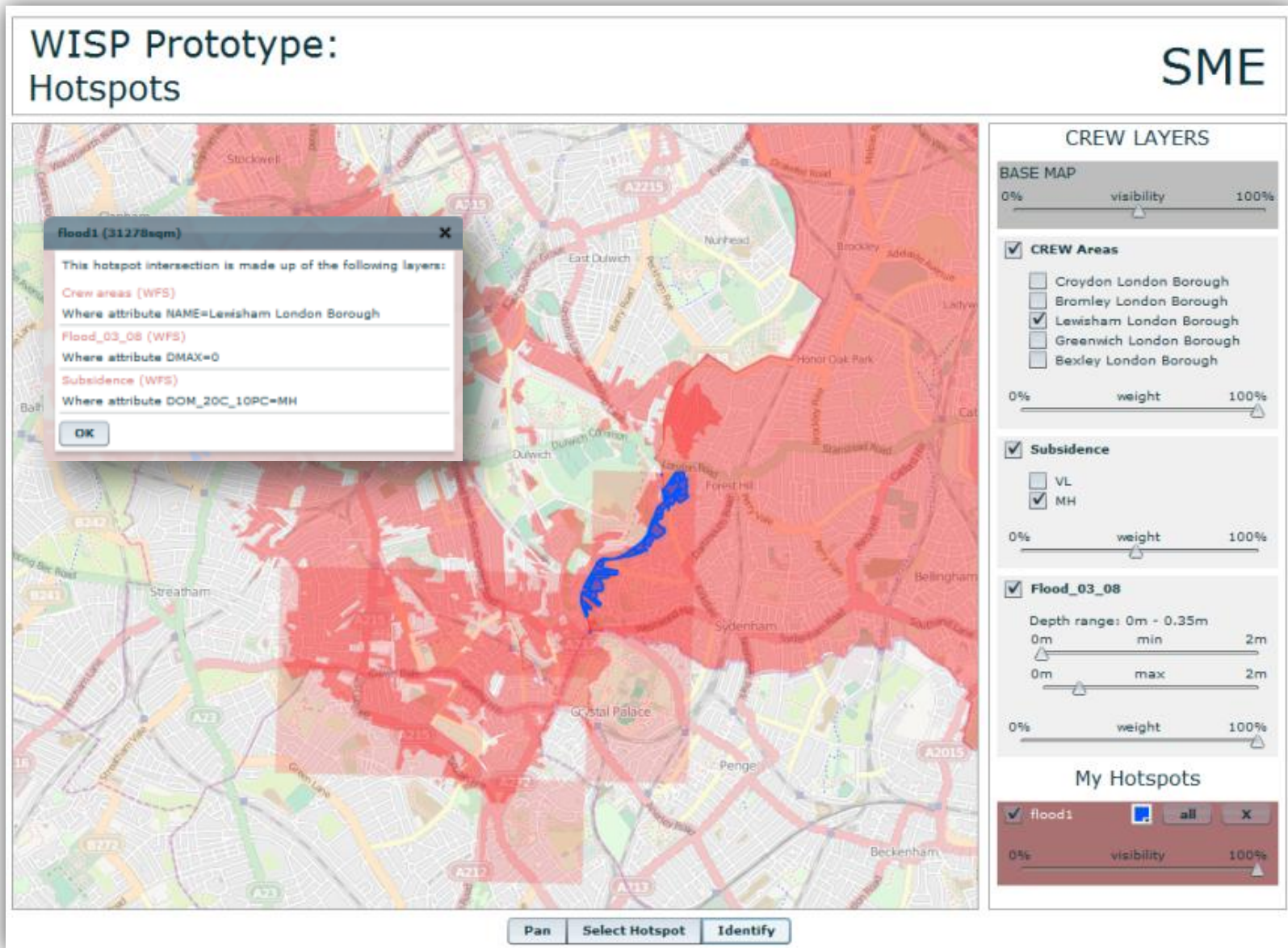
Name	Value
NAME	Lewisham University Hospital
STREETVIEW	<a href="#">Google Streetview link</a>

The map also shows "Brockley & Ladywell Cemetery" and "Lewisham Park". A scale bar indicates 1000 ft and 290 m. The text "Maximum Flood Depth CREW Project - Terms of Use" is visible in the bottom right corner of the map area.

## OUTPUTS

### WISP Prototype: Hotspots

### SME



The map displays hotspots in red and orange, with a blue river highlighted. A pop-up window for 'flood1 (31278sqm)' lists the following layers:

- Crew areas (WFS)  
Where attribute NAME=Lewisham London Borough
- Flood\_03\_08 (WFS)  
Where attribute DMAX=0
- Subsidence (WFS)  
Where attribute DOM\_20C\_10PC=MH

**CREW LAYERS**

**BASE MAP**  
0% visibility 100%

**CREW Areas**

- Croydon London Borough
- Bromley London Borough
- Lewisham London Borough
- Greenwich London Borough
- Bexley London Borough

0% weight 100%

**Subsidence**

- VL
- MH

0% weight 100%

**Flood\_03\_08**

Depth range: 0m - 0,35m  
0m min 2m  
0m max 2m

0% weight 100%

**My Hotspots**

flood1  all  X

0% visibility 100%

**Map Controls:** Pan, Select Hotspot, Identify