

Implications of a Nutrition Driven Food Policy for Land Use and the Rural Environment

PI: W Bruce Traill
Department of Agricultural and Food
Economics
The University of Reading

Project Motivation

- ❑ Increasing concern about non-communicable diseases (cancer, diabetes, cardio- and cerebro-vascular disease) and their link to diet
 - ❑ Recognition of the need for reform of agriculture to produce healthy but competitive products (White Paper, Curry, DoH)
-

Project Motivation (contd)

- ❑ Opportunity for policy reform given the ongoing decoupling of agricultural support from production incentives
 - ❑ The growing interest of consumers in healthy eating
 - ❑ Recommendations to eat more fruit and vegetables and less saturated fat
-

Project Objective

- Examine the potential for the development of sustainable UK food chains able to deliver healthy foods at prices consumers are willing to pay and, in particular:
 - develop novel plant and animal production systems that deliver healthier foods;
-

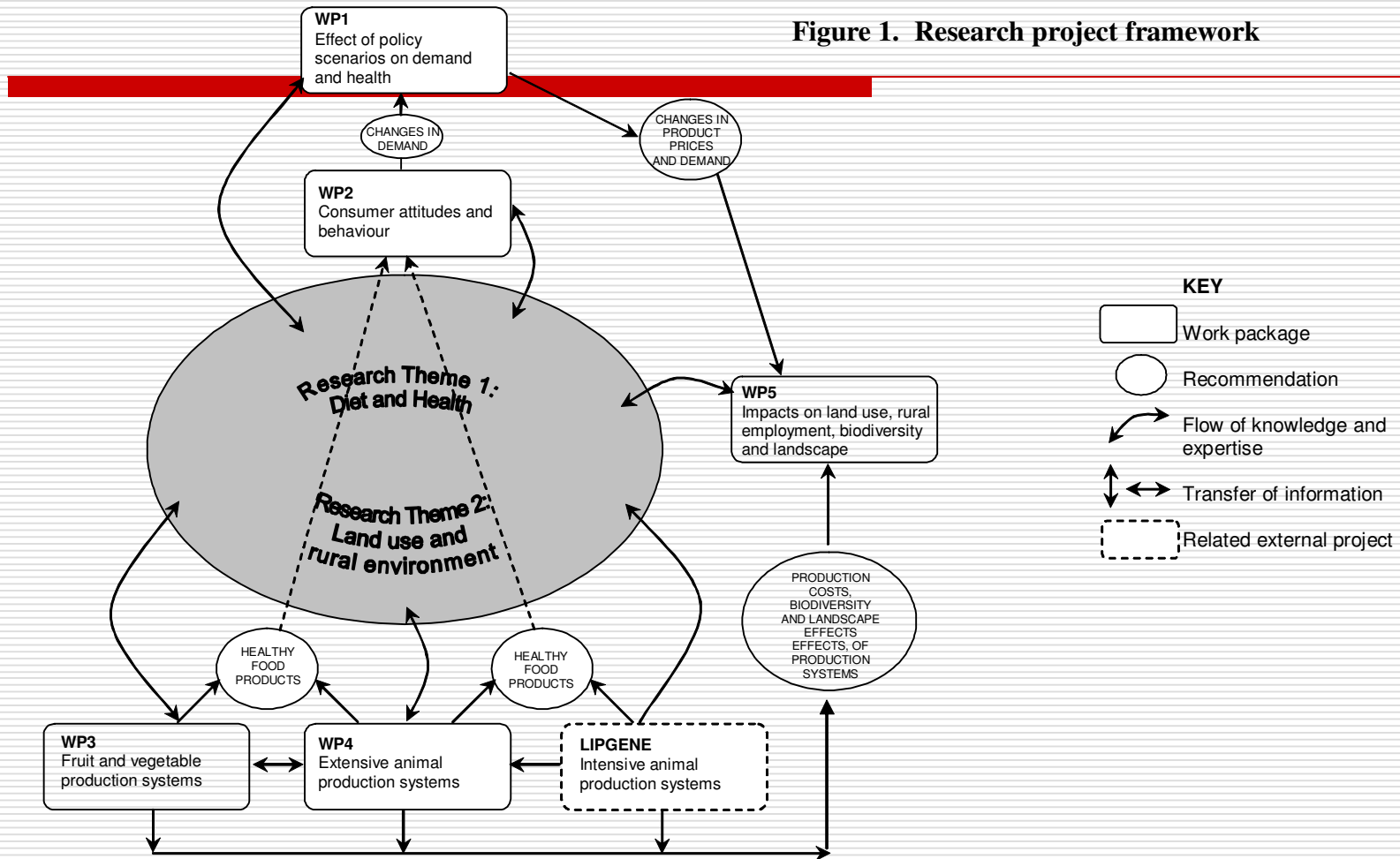
Project Objective (contd)

- assess the impacts of the novel production systems on biodiversity and landscape as well as land use, rural employment and incomes;
 - assess policy choices to foster desired change;
 - assess the impact on diet and health
-

Project Organisation

- Five interlinked 'workpackages' organised around two highly interdisciplinary research themes—
 - diet and health
 - land use and the rural environment
-

Figure 1. Research project framework



WP3: Production and nutritional assessment of phytochemical-rich soft fruit and lettuce

- ❑ Assessment of a new generation of plastic films on lettuce and soft fruit for beneficial phytochemical content
 - ❑ Assessment of potential health benefits
 - ❑ Impact of post-harvest supply chain and comparison with imports
 - ❑ Estimates of the impact on production costs
-

WP4: Assessment of extensive ruminant production systems and nutritional consequences

- ❑ Effect of forage species diversity on unsaturated fatty acids in ruminant food products
 - ❑ Nutritional assessment of the consequences for human health
 - ❑ Estimates of the impact on production costs
-

LIPGENE: Assessment of intensive animal production systems and nutritional consequences

- ❑ Research undertaken by Reading RELU WP4 researchers in an ongoing EU funded project
 - ❑ Information will feed into this project (nutritional composition, health impact, production costs)
-

WP2: Consumer attitudes and behaviour

- ❑ Assess consumer attitudes and behaviour with respect to healthy eating and their willingness to pay for specific healthy food products
 - ❑ Assess the effectiveness of healthy eating messages and other policy interventions for specific socio-economic groups
-

WP1 Effect of Policy Scenarios on Demand and Health

- ☐ Economic modelling of consumer demand
 - ☐ Impact of following healthy eating recommendations
 - ☐ Effect on consumption of new healthy food products
 - ☐ Policy experiments—impact on demand
 - ☐ Assessment of health impacts
-

WP5: Land use change, landscape, biodiversity, the rural environment and economy

- ☐ Using production cost estimates from WP3, WP4 and LIPGENE
 - ☐ Using demand estimates and effects of policy experiments from WP1 and WP2
 - ☐ Modelling the effects on land use and employment
 - ☐ Assessing attitudes to landscape change
-

Stakeholder Platform (SHP)

- A SHP will be established to
 - Maintain policy relevance (fine-tuning of methods and scenarios)
 - Aid in dissemination to a non-scientific audience
-