



St Andrews Sustainability Institute



University
of
St Andrews

University of St Andrews and Sustainable development

October 10th 2007
Making it Real workshop

Format of the day

- **Timing**

- 2:30 – 3:00 Coffee
- **3:00 – 3:10** ***Welcome from Mark Butler
(Secretary/Registrar of the University of St. Andrews)***
- 3:10 – 3:45 The story to date – University of St. Andrews and sustainable development
- 3:45 – 4:30 Round I of table discussion and feedback
- 4:30 – 4:45 Coffee
- 4:45 – 5:30 Round II of table discussion and feedback
- 5:30 – 6:00 Discussion – obstacles, enablers and next steps
- 6:15 – 7:30 Wine reception and formal launch of the St Andrews Sustainability Institute by Dr Brian Lang (the Principal of the University of St Andrews)

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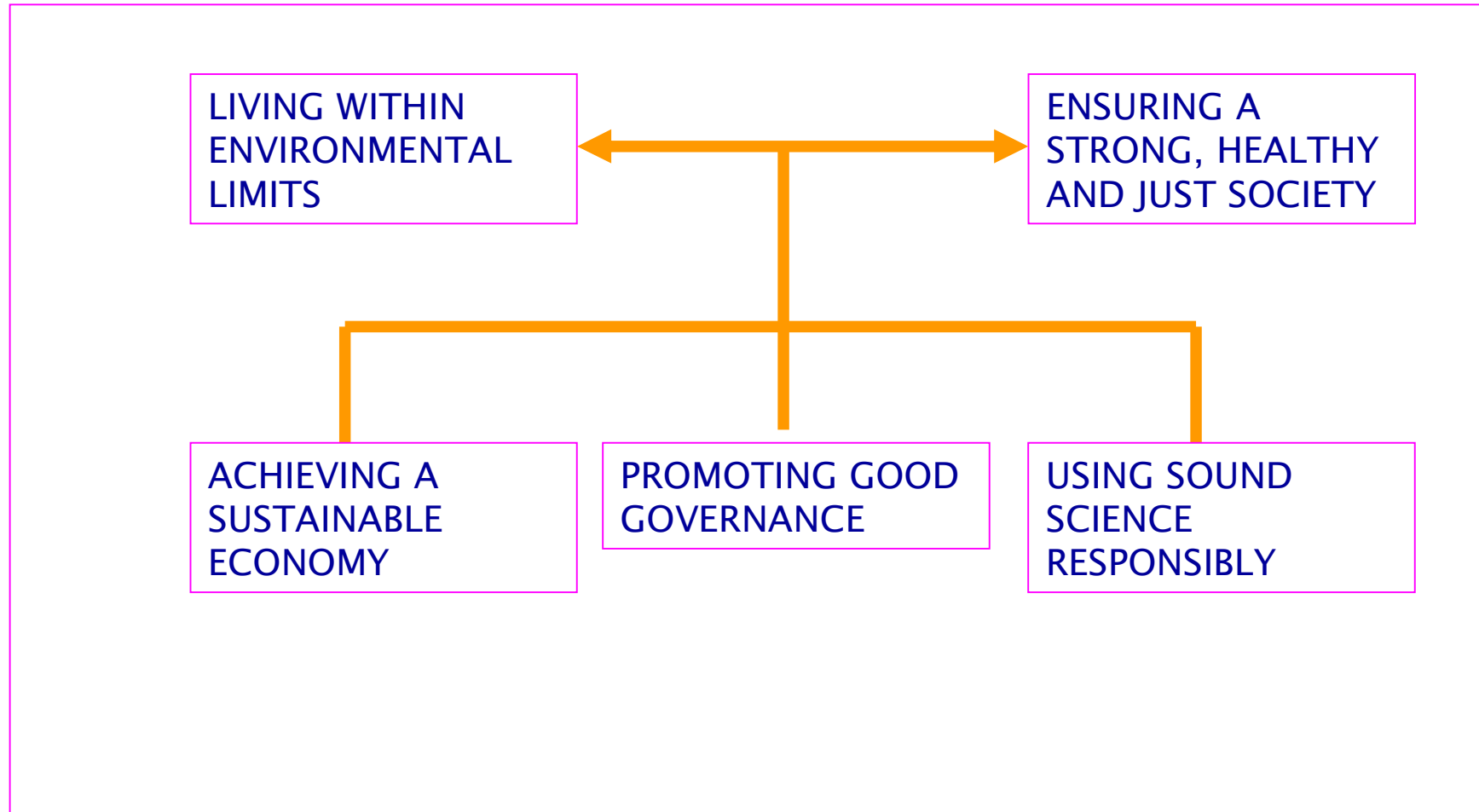
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Crisis ... what crisis?

- “are the most fortunate generations that have ever lived” and at the same time “might also be the most fortunate generations that ever will”, inhabiting as we do “the brief historical interlude between ecological constraint and ecological catastrophe”
- George Monbiot in *Heat*.



The five principles of sustainable development



Policy context for SD & for HE/SD

- Scottish Sustainable Development Strategy
- Learning for our Future: Scotland's first action plan for the UN Decade of Education for Sustainable Development
- The Scottish Funding Council ...
 - Will work with institutions & national bodies to identify how sustainable skills, attitudes & behaviours can influence the development of courses
 - Assess progress made by Scotland's universities and colleges & report annually to Executive (& review sectors progress of following SD principles in capital projects)
 - Consider how sustainable development research capacity can be developed

SFC and SD in its own mission

- Mission: provide a strategic overview of tertiary education in Scotland to help secure a more coherent system of high-quality learning, teaching & research
- Required by statute to have regard to:
 - Skills needs in Scotland
 - Issues affecting the economy of Scotland
 - Social & cultural issues in Scotland
 - Achieving sustainable development
 - The UK & international contexts
 - The education and related needs of students & potential students

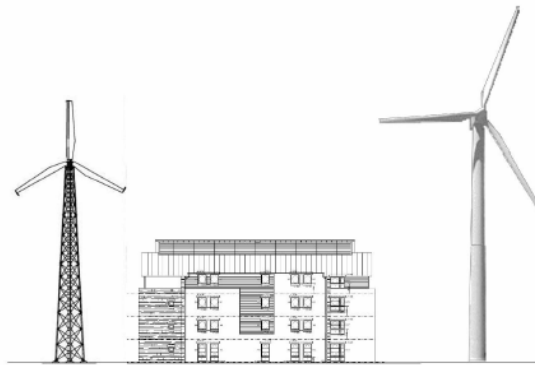
St Andrews

- Scotland's first University (founded 1314), 3rd oldest in the UK ... consistently highly rated in surveys and by our students
- St Andrews has approx. 17,000 residents
- St Andrews University has
 - 6,799 students (5,746 undergraduate, 1,053 postgraduate)
 - 2,048 staff (897 academic, 1,151 support and academic related)
 - 90.4% of students in employment or further study (35% go on for further study)
- St Andrews' size is constrained by its infrastructure (housing, sewage & roads) ... extensive tourism via golf
- A town with extensive sustainable development challenges ... but also a high quality of life etc.

University of St Andrews SD initiatives

- Governance

- Teaching and learning



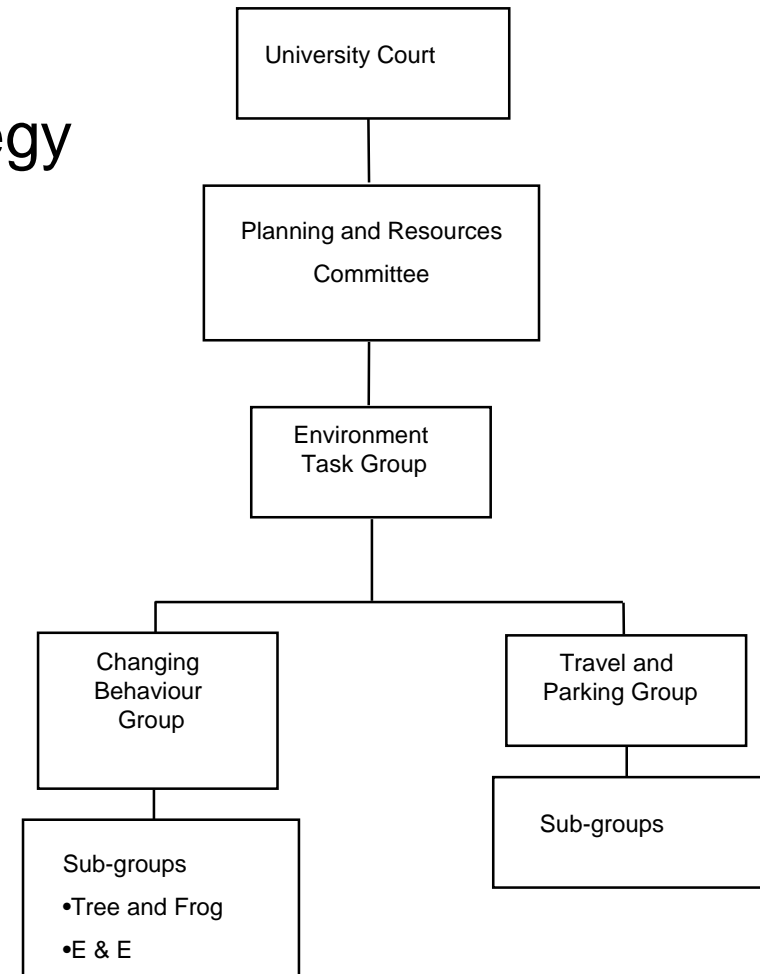
- Research

- Outreach



Governance structure

- Sustainability Policy
- Sustainable Development Strategy
- Objectives and Targets
- Performance monitoring and reporting to Court

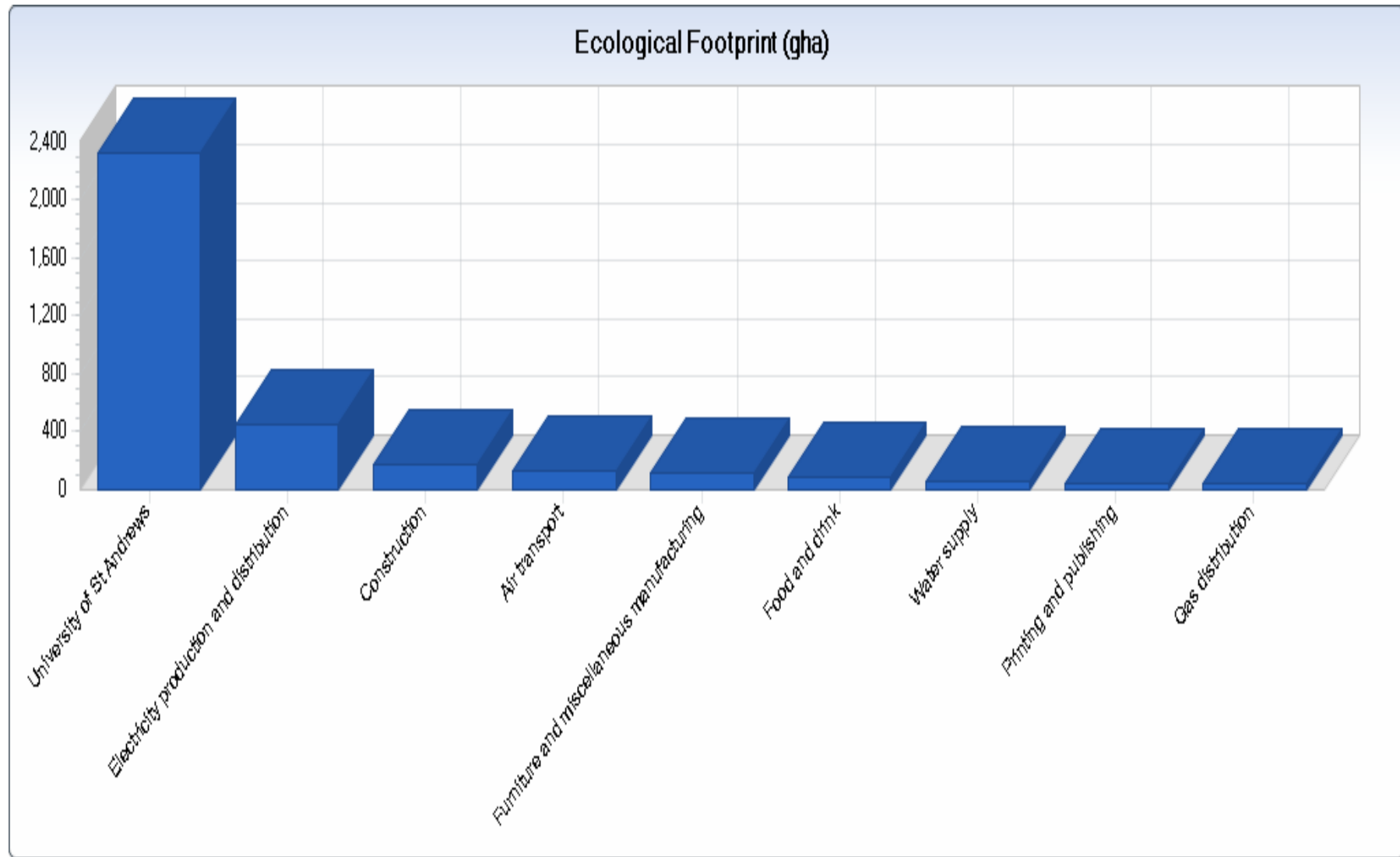


Measuring our impact

- Ecological footprint modelling
- Carbon accounting
- Plus ongoing measurements of waste, recycling, etc.



Breaking down 3,699 hectares



3,699 global hectares in context

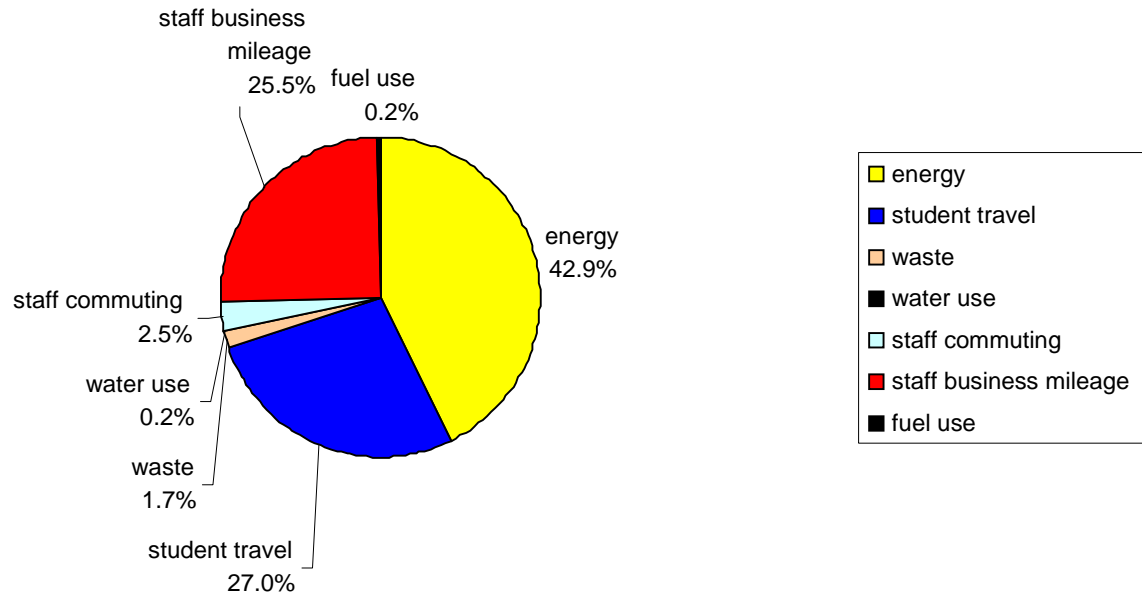
- No direct correlation with cost
 - Wages
 - Air travel
 - Gas and electricity
- University makes up about 0.126% of Scotland's GDP
- Yet contributes only 0.014% to Scotland's total footprint



Our carbon footprint

2007 UNIVERSITY CARBON FOOTPRINT

(Note - does not include construction waste; embodied carbon; procurement of goods etc)



CO2 Source	tonnes CO2
energy	16,850
student travel	10,607
waste	649
water use	78
staff commuting	1,000
staff business mileage	10,000
fuel use	87
Total	39,271

Core business – educating for SD

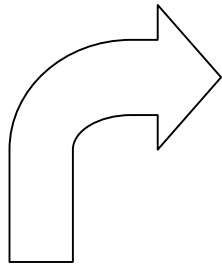
- Undergraduate degree in Sustainable Development
- Sustainable Development topics within discipline areas
- 2008 launch of postgraduate degree in Sustainable Development

Core business – research and SD

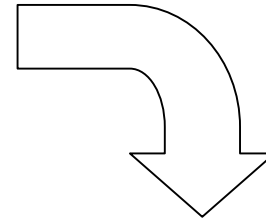
- Significant research activity over all schools (approx 75 academics in cognate fields)
- Centres for
 - Research into Ecological and Environmental Modelling
 - Social and Environmental Accounting Research
- Institute of Environmental History
- St Andrews Sustainability Institute



Core business – KT & SD

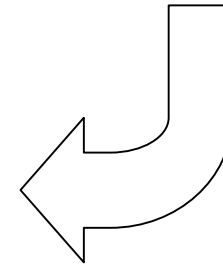


Courage, wisdom &
vision for the future

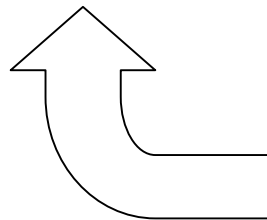


Stories about the past

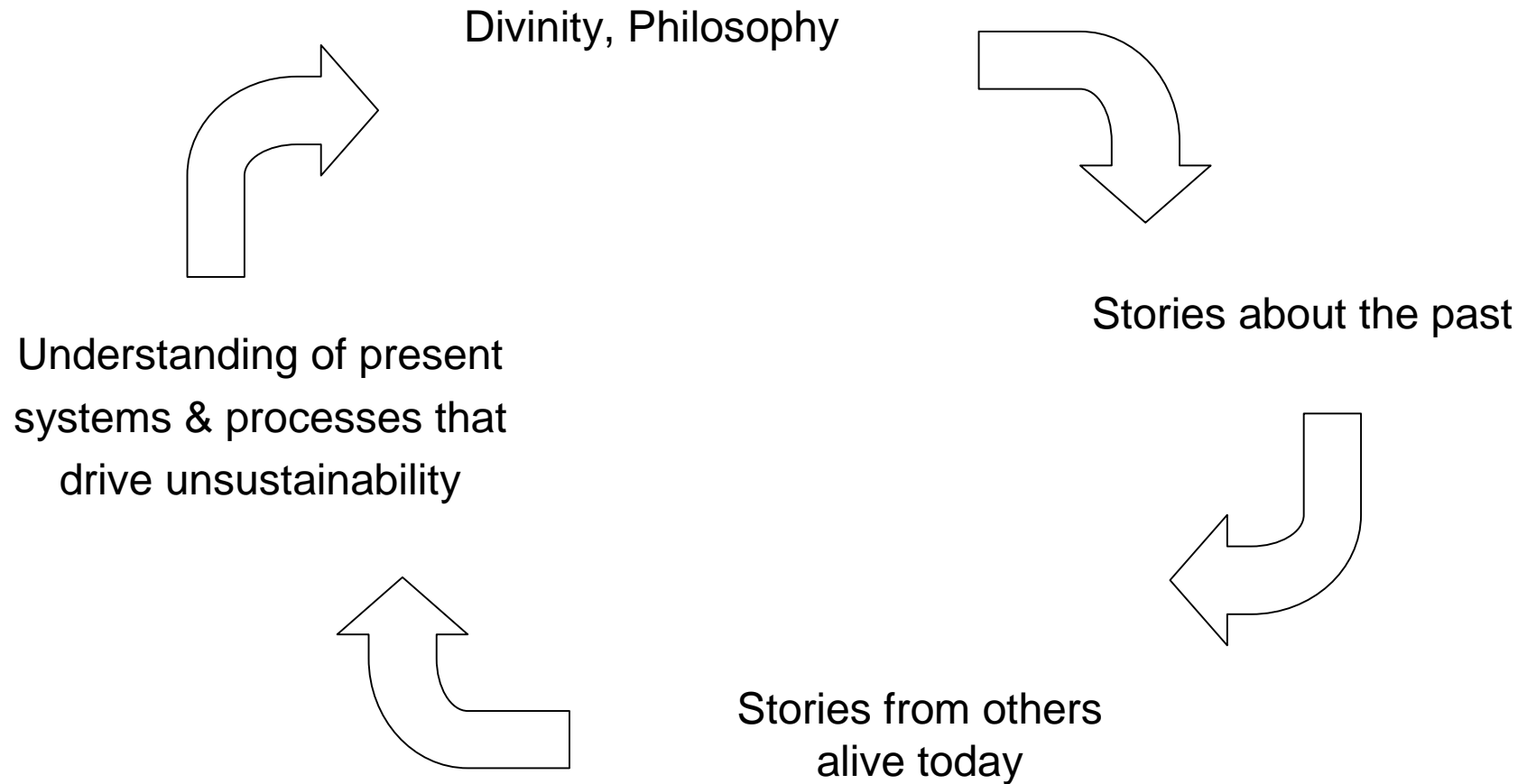
Understanding of present
systems & processes that
drive unsustainability



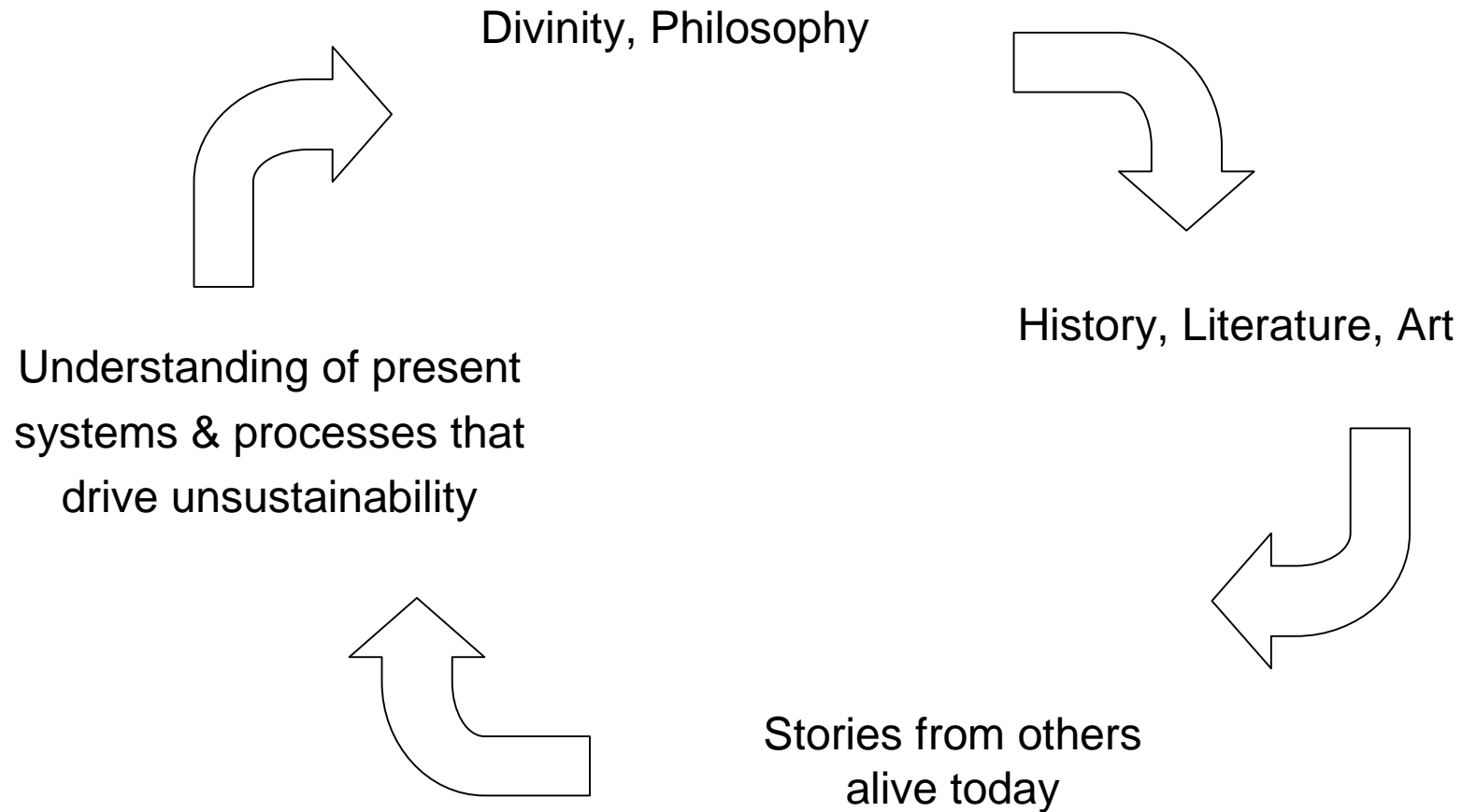
Stories from others
alive today



What do we need?

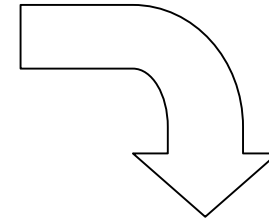
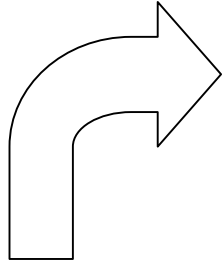


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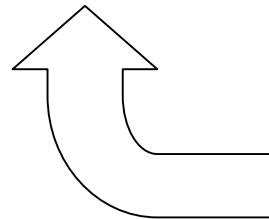
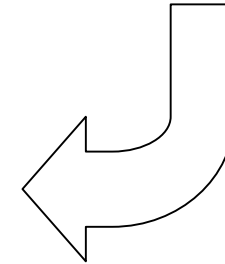
What do we need?

Divinity, Philosophy



History, Literature, Art

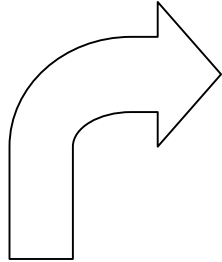
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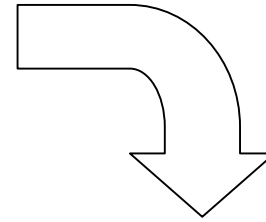
Social Anthropology

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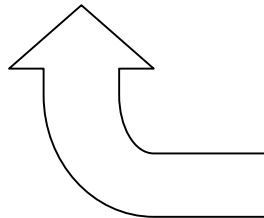
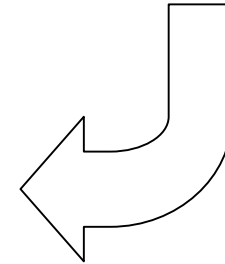


Geoscience, Geography, Chemistry
Physics, Biology, medical science



History, Literature, Art

Management, Economics, Maths/Stats
International Relations, Psychology



Social Anthropology

This is fabulous ... but is the start of the conversation not the end

- What step wise changes are possible?
- What is the longer term strategy for this (and other) Universities?
- Strategic
 - Art or skill of carefully planning towards a desired end
- Tactical
 - Plans or procedures to carry out a scheme to achieve an end



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Questions for the day

- ***Round I of questions ...***
 - ***What will Universities look like in a carbon constrained world?***
 - ***Where are the boundaries of a University that is addressing its SD impacts?***
- **Round II of questions**
 - How will education change in the face of SD demands?
 - What does leadership in SD look like for the university sector?

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Thank you very much for all your
ideas and input

- We will send you a seminar report on the afternoon
- Wine reception and formal launch of the St Andrews Sustainability Institute
- Dr Brian Lang (the Principal of the University of St Andrews)