1. ScanStep® worksheet to analyse the macro environment that Airbus faces, with particular reference to issues that may affect the A380.

	Scanstep@ mac	ro environmental issu	e summary for Airbus
Issue domain	Event or trend	Active stakeholder(s)	Potential significance
Social	Increasing leisure time encourages air cost-conscious travel to holiday destinations. 1	Consumers	Should sustain demand for new, larger aircraft combining comfort with low cost. An opportunity for Airbus. 2
attractive no far-off cour expected to http://www 2 All else equa	ew destinations. Increasin ntries on a regular basis. To rise from 189m in 2002 to .dft.gov.uk/stellent/groups	g numbers of expatriate the available UK Govt. o 500m by 2030 (sources/dft_aviation/documents)	eing encouraged to fly further afield to es and settlers wish to visit their families in forecast was that UK air passenger traffic was e: ts/page/dft_aviation_031507.hcsp) ng and escalating costs do not significantly
Cultural	Increasing scope for cultural exchange visits by EU students and other groups 3	European Commission Students and special interest groups	Increasing transnational air travel is notably by very cost-conscious people. An opportunity for Airbus particularly if they have the budget airlines as clients
3 An explicit 1	priority of the European C	Commission. Also Europ	pe to the US and to the Far East
A uthority	Planning constraints on airport expansion are becoming tighter 4	Airport operators e.g. BAA Local residents	Airport operators may be barred from extending runways and expanding facilities that will be vital for aircraft like the A380 to land. A possible threat to Airbus sales. 5
	International regulation of civil aviation	A complex mix of regulatory, safety and security agencies in host countries ₆	Extreme complexity of negotiations for change affecting the interests of many governments generally makes constructive change slow and difficult to agree. Uncertainty may cause airlines to delay new purchases or stick to what they are familiar with
-	combination of internation and local concerns forcing	_	nitments as well as pressure groups with s to respond.
A380. Bette	er passenger-handling factories on-creating flights, all else	ilities are also needed. I e equal.	ts (e.g. at London Heathrow) to cater for the However, larger aircraft means fewer noise
6 e.g. national IATA, WT		nd transnationally: EAS	A European Aviation Safety Authority,
Natural environment	Air travel generates large volumes of greenhouse gases,	Environment pressure groups; Government	Probable tightening of controls on airline routes, take-off and landing slots. Rising demand for cleaner aircraft using less fuel

(ecological)	noise and possible damage to the ozone layer	agencies responsible for industry regulation	per passenger-mile. This should be an opportunity to increase sales of the Airbus A380 (but see note 5 above).
Security	Threat of terrorist attacks	Terrorist groups. Regulatory and security agencies	Various challenges arise for the A380: o More complex aircraft designs. 7 o Increased scrutiny of passengers and slower boarding. 8 o Airline bankruptcies. 9

⁷ Changes to existing aircraft have already been made e.g. bullet-proof, locked access doors to the pilots' cabin. Future designs will be required to have greater survivability in the event of explosion damage etc.

⁹ Causing defaults on orders and payments. Two effects might cause bankruptcy (i) targeting of particular airlines for physical attack e.g. Islamic terrorist attack on Israel's El Al (ii) major disruption to the computer booking systems used by all airlines, causing chaos and loss of revenue.

Technology	Major developments in use of composite materials in aircraft production	Chemical companies Airframe contractors	Bigger, lighter, more fuel-efficient aircraft, but rising development costs, which present potential threats and opportunities for Airbus
	New scanning technologies to speed passenger and baggage screening	IT and security industries	Makes super-jumbo aircraft more viable by speeding up flight boarding
Economic	Globalization of business operations	Business corporations	Growing international air travel by business travellers, some of whom who prioritize service and comfort, others low cost and convenience. Implications for Airbus are ambiguous. 10
	Economic constraints on airport expansion	Airport operators	Airport operators may be reluctant to invest in costly, longer runways and better facilities. 11 A significant threat to Airbus.

¹⁰ Because the needs of business and non-business travellers generally differ, internal layouts on new aircraft will have to cater for their differing expectations.

¹¹ Since these are vital for big aircraft like the A380 to land safely and turnaround efficiently and quickly.

Political	The USA is politically unpopular in many countries	Boeing and its contractors; the US Government.	State-owned airlines generally buy from their own state companies where possible. Failing that, they may prefer Airbus over Boeing if they have anti-American sentiments.
	Countries whose governments effectively control their airlines and aircraft makers	China & Russia in particular Their aircraft makers	Extremely difficult for external suppliers such as Airbus to break into these essentially captive markets.

⁸ Slower boarding will discourage the use of larger capacity aircraft such as the A380.