



























Company	Product	Initial Impact Expected
Apple	iPad 2	Key component suppliers shutdown (NAND flash memory, touch screens,
		iPad batteries) Part shortages, cut sales forecasts, constrained supply;
		struggling to meet orders; "mother of all backlogs" (but from quake?)
GM	Autos	US plant closed because lack of supply of engine air flow sensors
Hitachi	Airflow sensor	Plant damaged; makes 60% of global supply of airflow sensors
Honda	Autos, parts	Dependent on 10 suppliers in radiation zone; Closed component &
	-	assembly plants; expect to lose 16,500 units; lost contact with 44 of 113
		suppliers Global output down 52%
Mazda	Autos, parts	Plants closed, some to be closed until April
Nikon	SLR cameras	Plant closed; only plant making SLR cameras
Nissan	Autos, engines	Facility closed; lack water, electricity& gas to operate. May send engines
	-	from Tennesee plant to Japan Expect to return to 100% capacity by
		October. Global output down 22%
Renesas	Drive train	Facility closed; lost 40% capacity Expects to return to 100% capacity by
	microcontroller	October, restart in June, using 3P foundries TSMC
Shin-Etsu	Silicon wafers	World's largest maker of silicon wafers disrupted; 57% of world's wafers
Chemical		come from Japan
Toyota	Autos	Shutdowns across all TMC plants. Original est loss of 140,000 units; 50-
		70% capacity by June, 500 part shortages Now expect 100% by Nov &
		90% in Japan in June (up from 70% 2 wks ago). Lost 900,000 units thru
		May. Global output down 47%

Company	Apple		oxConn on Hai)	ASE or SPIL	Kinsus or Unimicron	Electrotechno (Mitsubishi Gas Chemical sub)
Product	iPad2		semble roduct	Chips (TSMC) to substrate, to PCB	Use BT to make IC substrate	Manufacture bismaleimide triazine BT resir
Location	Retail	(China	Taiwan	Taiwan	Fukushima, Japa
Company	Apple	þ	ΕοχΟο	nn (Hon Hai)	Apple Japan	Kureha
Product	iPad2			nble product	Battery cells	PVDF polymer resin
Location	Reta	il		China	Japan	Iwaki, Japan
 Electrote 	echno ir	ı Fu	kushima	•	50% of global I oply of PVDF	BT resin supply



Company			Engine Plant	Hita Automot		Hitachi
Product	Trucks & Cars	Er	Engines Mass a sensor			Sensor
Location	Shreveport LA	Buff	falo, NY	Sawa/Ibaraki, Japan		Japan
Company	Auto OEMS		Various		Renesas Electronics	
Product	Trucks & Cars		Drive train		Microco	ontroller chip
Location	Global assembly		Various		Naka/I	baraki, Japan
 Hitachi ai 	rflow sensor		•	san, PSA supply of a		













