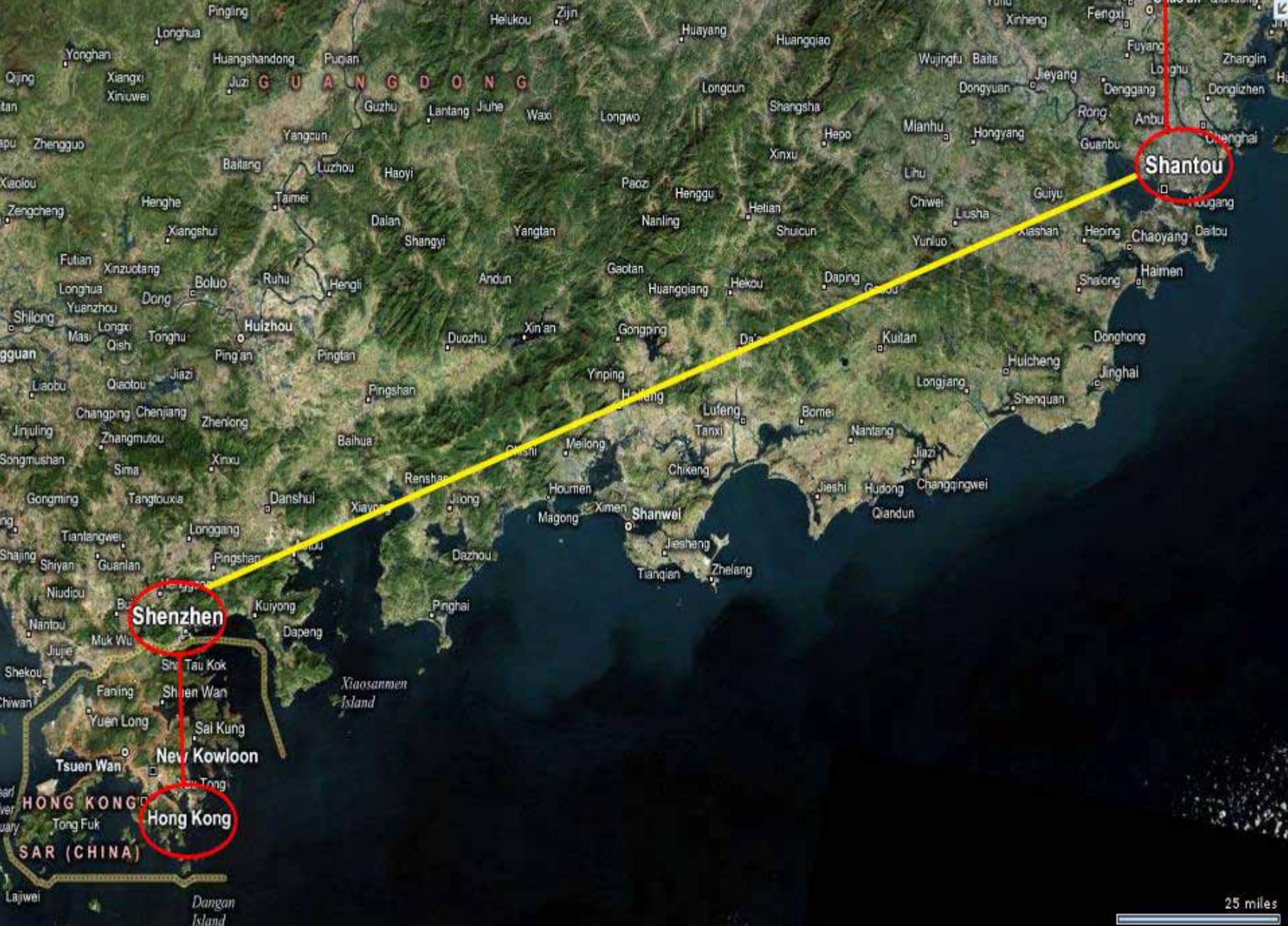


Electronics Market - Shenzhen China







**Washing
parts in
river**



**Parts drying
on
riverbank**



Cost 0.25¢
new



E-Waste feedstock for counterfeits





BCS
29LV800TTC
-70

MEM
29LV320FE
-70

LM28F160BVHE
-TTL90

三 DDR
16x16
K4D551638F-36
K4D551638F-40
K4D551638F-50

三星 BGA
K4S561638F-XGTS
K4S561638F-PLLL
K4D263230G-GC

DDR
8x16
K4D261638F-Te40
K4D261638I-Te50

DDR
8x16 16x16
HY5DV281622ET-J
HY5DV281622ET-J
HY5DV281622ET-J

南 DDR
NT5PS8M16FS-9T
NT5PS8M16FS-5T

DDR
8x16
VT3212162T-6

DDR 16x16
K4H561638H-U000
K4H561638H-U000

SF5103189W

W491102A-70

Exemplar

**Top
Surface**



Suspect

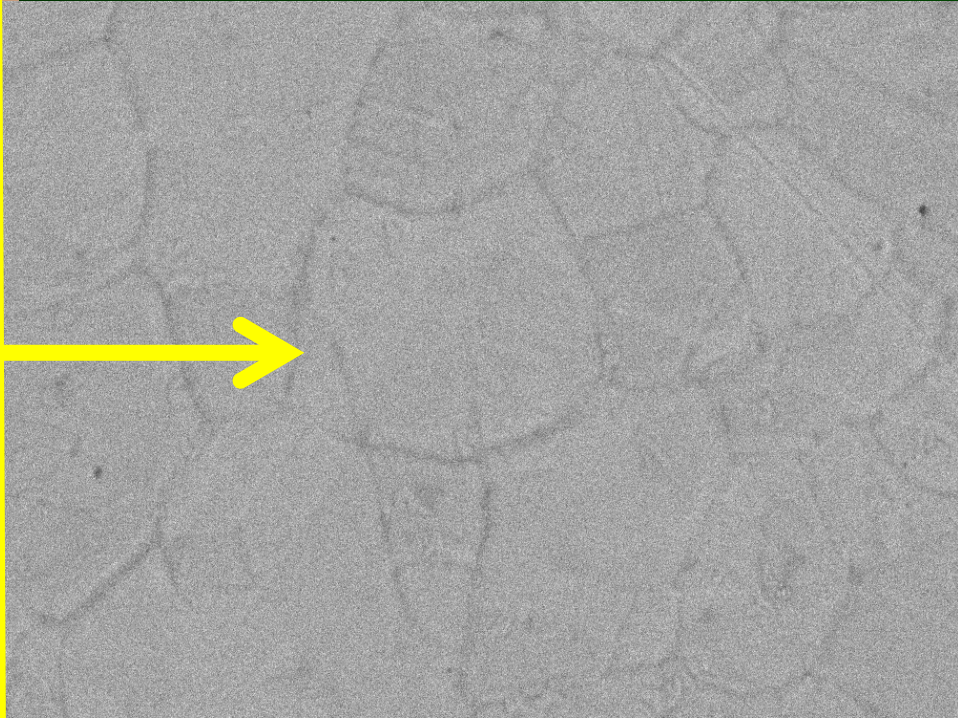
**Top
Surface**



Exemplar

Surface

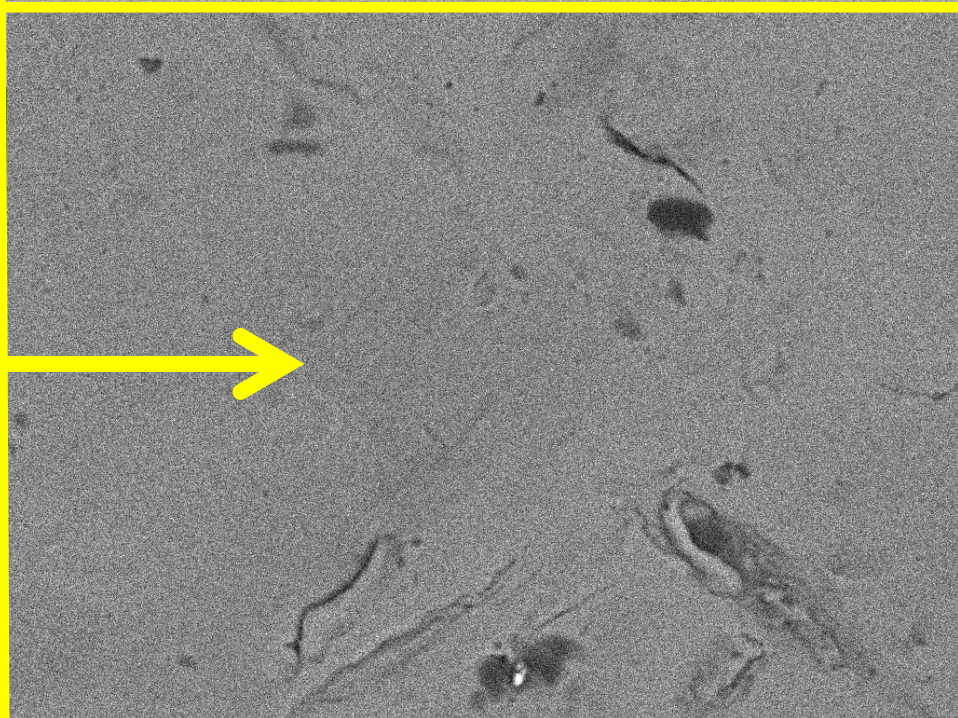
5000x



Suspect

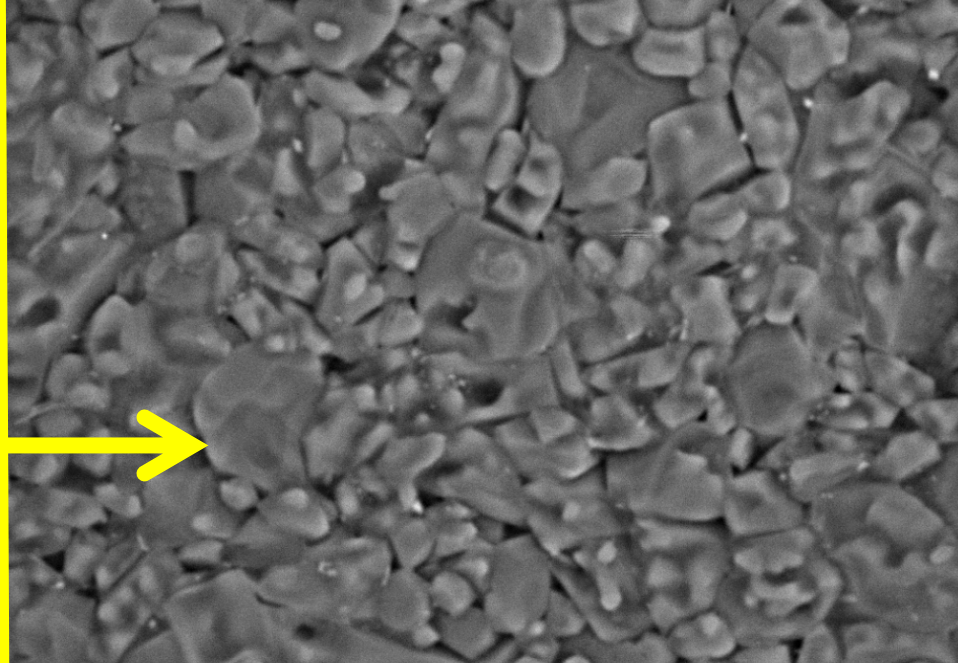
Surface

5000x



Exemplar Surface 5000x

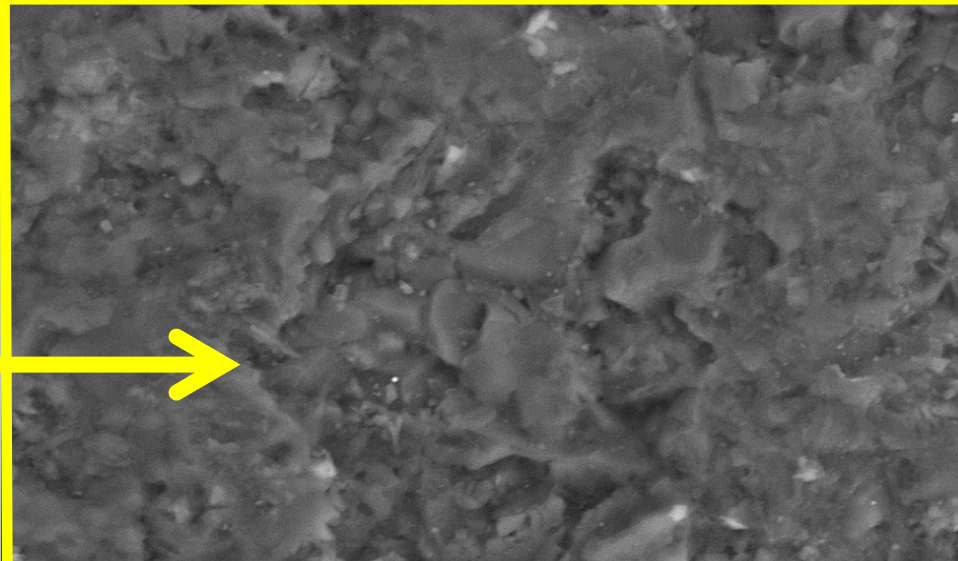
XILINX®
XC4010™ -6
PG191C
X27730M
BKG9337



SEM HV: 20 kV	WD: 13.91 mm	 10 μm	VEGA3 TESCAN
View field: 57.9 μm	Det: BSE		
SEM MAG: 4.99 kx	SM: RESOLUTION		

Suspect Surface 5000x

XILINX®
XC4010™ -6
PG223AKJ0645
F38847A
5C



SEM HV: 20 kV	WD: 12.36 mm	 10 μm	VEGA3 TESCAN
View field: 50.7 μm	Det: BSE		
SEM MAG: 5.69 kx	SM: RESOLUTION		

Counterfeit Problem Perception ↘

Global Impact on Industry

Reality of the
Counterfeit
Problem ↙