



**EL SIN Ltd.**  
**European LCD Repair Centre**  
**Display Solutions**



## Presentation Content

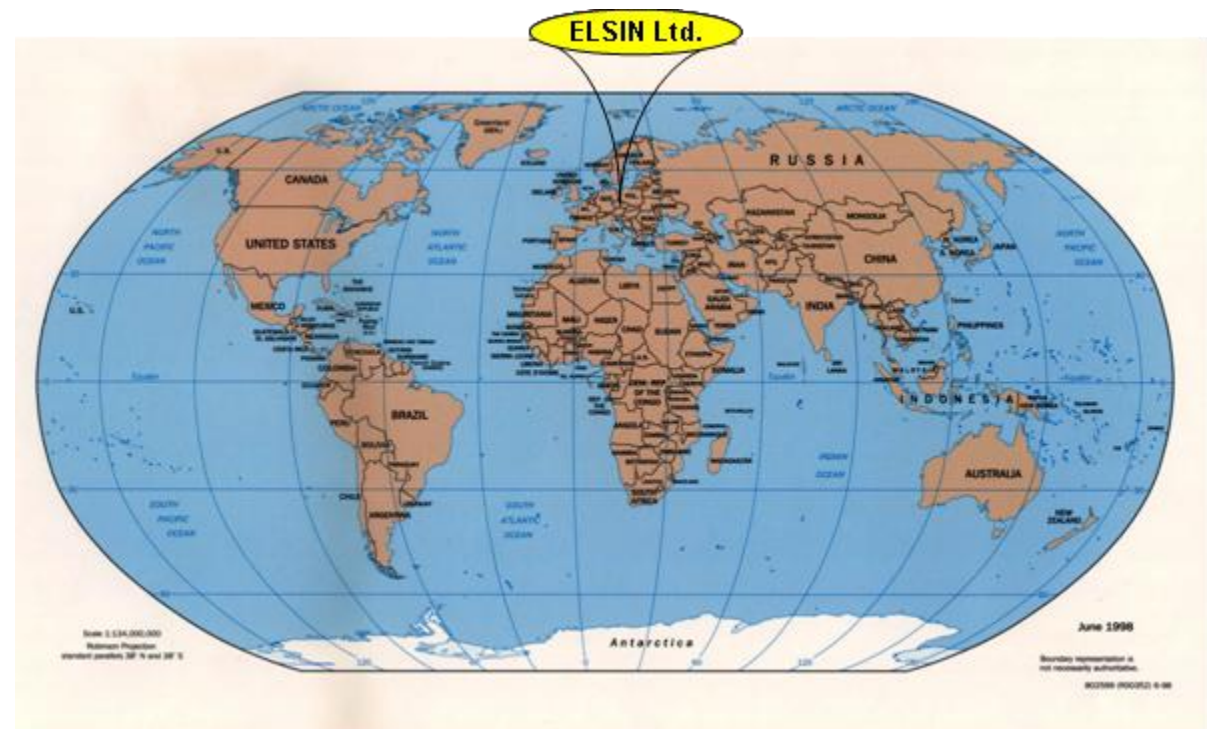
- ELSIN location
- ELSIN basic data
- More about ELSIN services
- Contact us

ELSIN motto:

**“We are helping our customers to be successful through the QUALITY, SPEED, PRICE AND FLEXIBILITY of our services”**



Plzeň – West Bohemia capital





The Czech-Korean company **ELSIN Ltd.** was founded in 2005 as an European centre for high-tech services with special focus on **LCD display unit repair** and related services - **LCD Repair, RMA service, Buffer service, LCD Storage and Logistics ...** Elsin Ltd. provides reliable services for its worldwide customers - **LCD panel producers, LCD monitor&TV producers, LCD distributors, LCD repair centers ...**

The company's location in the middle of Europe in Plzen, Czech Republic is of strategic advantage regarding services and logistics and ease of contact with customers in the whole of Europe.

### ELSIN competitive advantages:

- **Excellent LCD Repair experiences** - more than 10 000 LCD panels sent for repair to ELSIN yearly
- **High quality LCD display unit repair (up 55/65")** – Detach/Attach, Bonding, BLU, CCFLamp and PCB repair
- **Short TAT 14-10-7 days** – WI (warranty in), OOW (out of warranty), CID (customer induced defects), etc.
- **Flexible RMA and buffer services**
- **Support of LCD service centers (SVC)** – providing repair services for European SVC, managing of LCD repair supply chain
- **Reliable logistics and huge capacity warehousing**

### Other LCD activities:

- **LCD assembly services for special purposes** – LCD product assembly for industrial and other purposes
- **On-site support** – verification and expert services in European area for LCD makers

The business associate of **ELSIN** is the Korean No.1 company in LCD repair and data recovery business – **Computer & Communication (C&C) Co., Ltd.**

**C&C Ltd.** has been active in the field of LCD Repair since 1995. Among its customers are world's leading manufacturers of LCD panels and products, microelectronic components and systems.



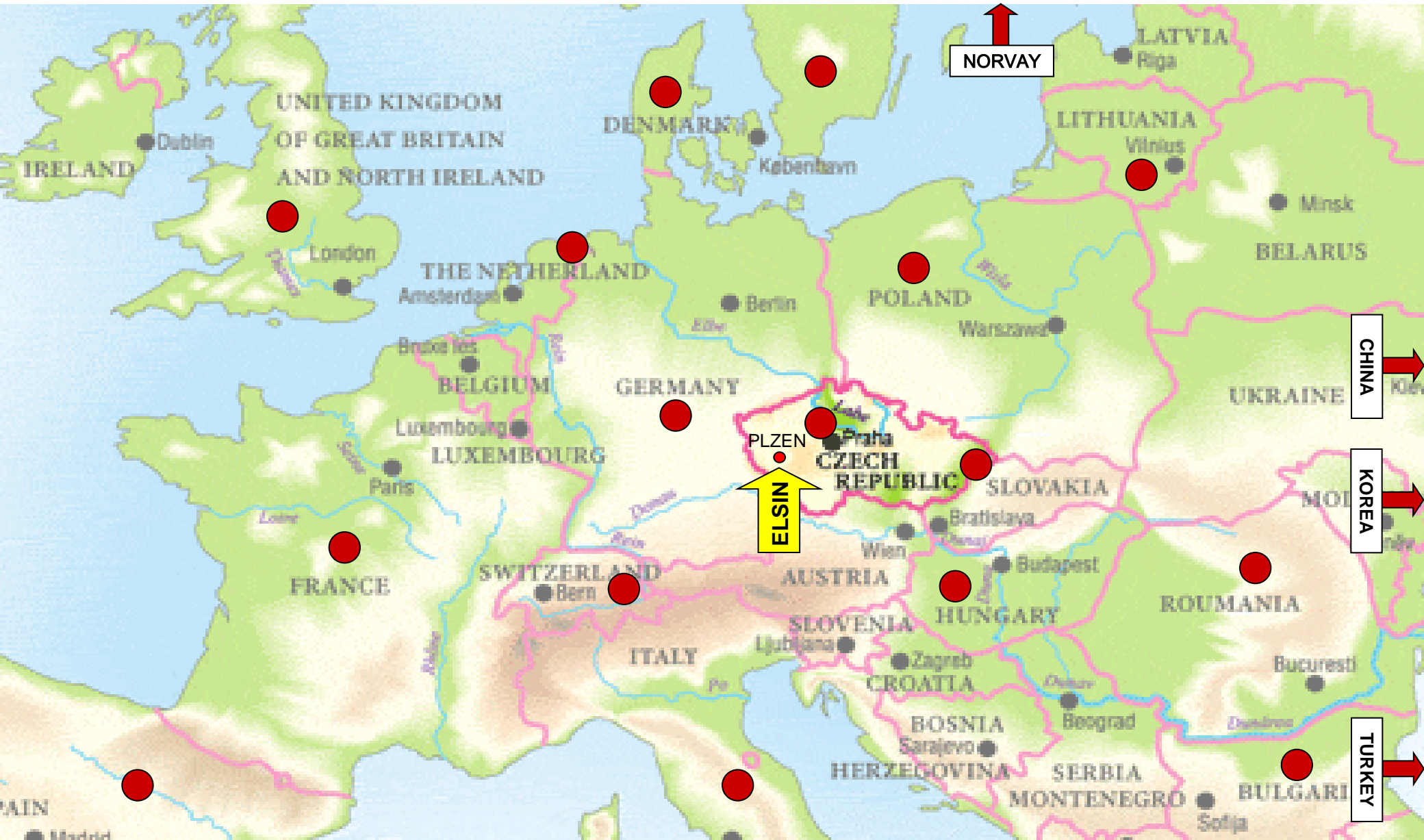
데이터복구.LCD수리전문기업

For more about Elsin repair services see [www.LCDrepair.eu](http://www.LCDrepair.eu)



**ELSIN Ltd., Plzen city  
Czech Republic**





## ELSIN reference customers

ELSIN has provided reliable repair, RMA and other services for dozens of customers like:

Acer, Czech Republic

ANOVO, UK

Bartolini, Italy

BOE Optoelectronics Technology, China

Foxconn Technology CZ, Czech Rep.

Foxconn CZ, Czech Rep.

GIGAZONE, Taiwan

Hyundai IT, Korea +15 European service centers

Kontron Embeded Computers, Germany

LG Electronics, Poland

Samsung Electronics, Slovakia

Samsung Electronics, Hungary

Tatung Czech, Czech Rep.

Teleplan, Poland

TestLink Services Limited, Czech

AUO/TPV International, Netherlands

Vestel Elektronik, Turkey

WISTRON, Czech Rep.

## Scope of activities

- Polarizer replacement
- Driver IC exchange (H/V line or block)
- Back light / Lamp repair
- Component level PCB repair
- CID defects repair
- RMA services
- Buffer services and Warehousing
- Logistics – worldwide delivery
- On-site RMA support and technical support
- Display solutions

## Proprietary Data Tracking

- LCD panel travelcard
- Repair operation logging
- Historical data available
- Failure analysis
- Custom reports
- On-line web access

## Main customers

- LCD panel manufacturers
- LCD products (TV, monitor) manufacturers
- LCD Service Centres

## Customer locations

Korea, China, European countries, Norway, Switzerland, Turkey, South Africa, etc.



*Detach/Attach operation in ELSIN Ltd.*

**Repair experiences** More than 10 000 LCD panels sent for repair to ELSIN yearly. Frequent models: AUO, BOE HYDIS, BOE OT, CPT, CHIMEI, HANNSTAR, HYUNDAI, INNOLUX, LG PHILIPS, NEC, OPTREX, SAMSUNG, SHARP, TOPPOLY, TORISAN, TOSHIBA etc.

**LCD Repair capacity** about 1,500 panels per month  
(easily extendable)

**Facilities**

- Polarizer Detach/Attach machine up to 24"
- Polarizer Detach/Attach machine up to 55"
- Bonding machine up to 24"
- Bonding machine up to 65"
- Clean-room technology 1000/100
- Microscope inspection
- ESD control

**Production&Store Space**

- Repair space 350m<sup>2</sup> in Scientific Technology park of Plzen city,
- Partner warehousing company with capacity of more than 8000 pallets

**Quality Assurance** customer audit ISO/TS 16 946 May 2006  
ISO 9001-2000 regulations respected



*Bonding operation in ELSIN Ltd.*

**Logistics and Supply Chain Management** – ELSIN’s position in the middle of Europe is of great advantage in providing cheap and efficient goods transport to destinations all over the continent. For its business partners ELSIN ensures collection of defective products from Service Centers and return of the repaired products to customers. ELSIN communicates with service centers on behalf of business partner to ensure the effective supply chain.

**Warehousing** – storage of LCD panels and other goods in modern, safe, computer-controlled warehouse with the capacity in excess of more than 1 000 pallets.

**Customer services** – RMA (Return Material Authorization) services, Buffer services (swap stock), Reporting to customers on goods status and movement, Statistical analyses, Supply chain management and others. Direct access to Elsin information system available for customers.

**Buffer services** – panels sent for repair are compensated from the panel stock/buffer. Compensated LCD panels are distributed to customers. LCD buffer is kept at the Elsin warehouse at quantities corresponding to the actual market or business partner demands. The stock is maintained through supplies from business partner or purchased by ELSIN and also supplemented by panels repaired by ELSIN.

**On-site Support** – expert services in Europe area for LCD producers. For LCD manufacturers Elsin provides verification or testing of LCD panels directly at the factories of their European customers (monitor or TV manufacturers).

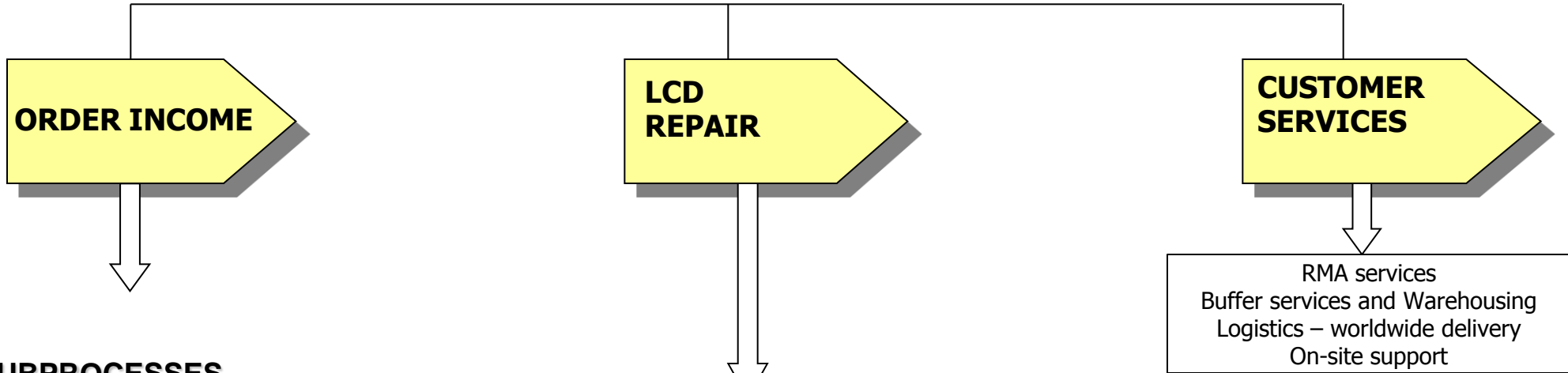
**Product tracking ability** – Elsin maintain detailed records of the goods dispatched and received with the associated statistics and operational analyses as required by the customers. Each product on Elsin repair line have it’s own “travel card”, operations with the products are logged into customized LCD repair information system. All historical data are available. Elsin provides web based on-line reporting services for the customers. Data from Elsin information system can be easily imported into customer’s systems (SAP, BAAN,..)

**LCD panels & Spare parts supply** – LCD panels (for notebook and PC monitor), Polarizers, CCFLamps, Bonding TABs, LCD panel testing jigs, tools etc.

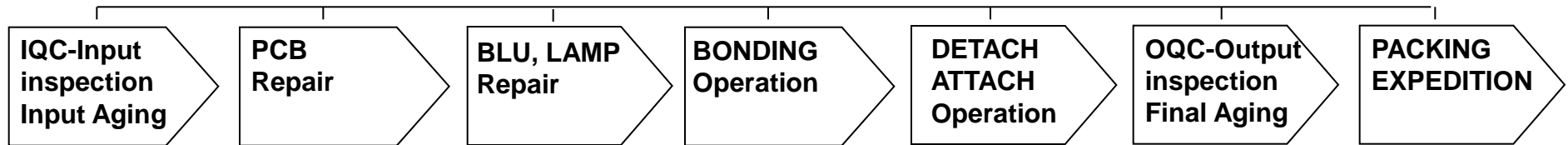
## KEY PROCESS



## MAIN PROCESSES



## SUBPROCESSES



## Company contacts:

Web: [www.LCDrepair.eu](http://www.LCDrepair.eu)

Email:

LCD Repair [service@elsin.eu](mailto:service@elsin.eu)

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Logistics [logistics@elsin.eu](mailto:logistics@elsin.eu)

Tel.: +420 - 377 420 110

Fax: +420 - 377 420 113

Skype: [Elsin.eu](https://www.skype.com/add?contact=Elsin.eu)

## Post Address:

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Univerzitni 62

Loguran Logistic Park  
CZ301 00 Plzen  
Czech Republic



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**Repair Hotline:**  
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## Key contacts:

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