



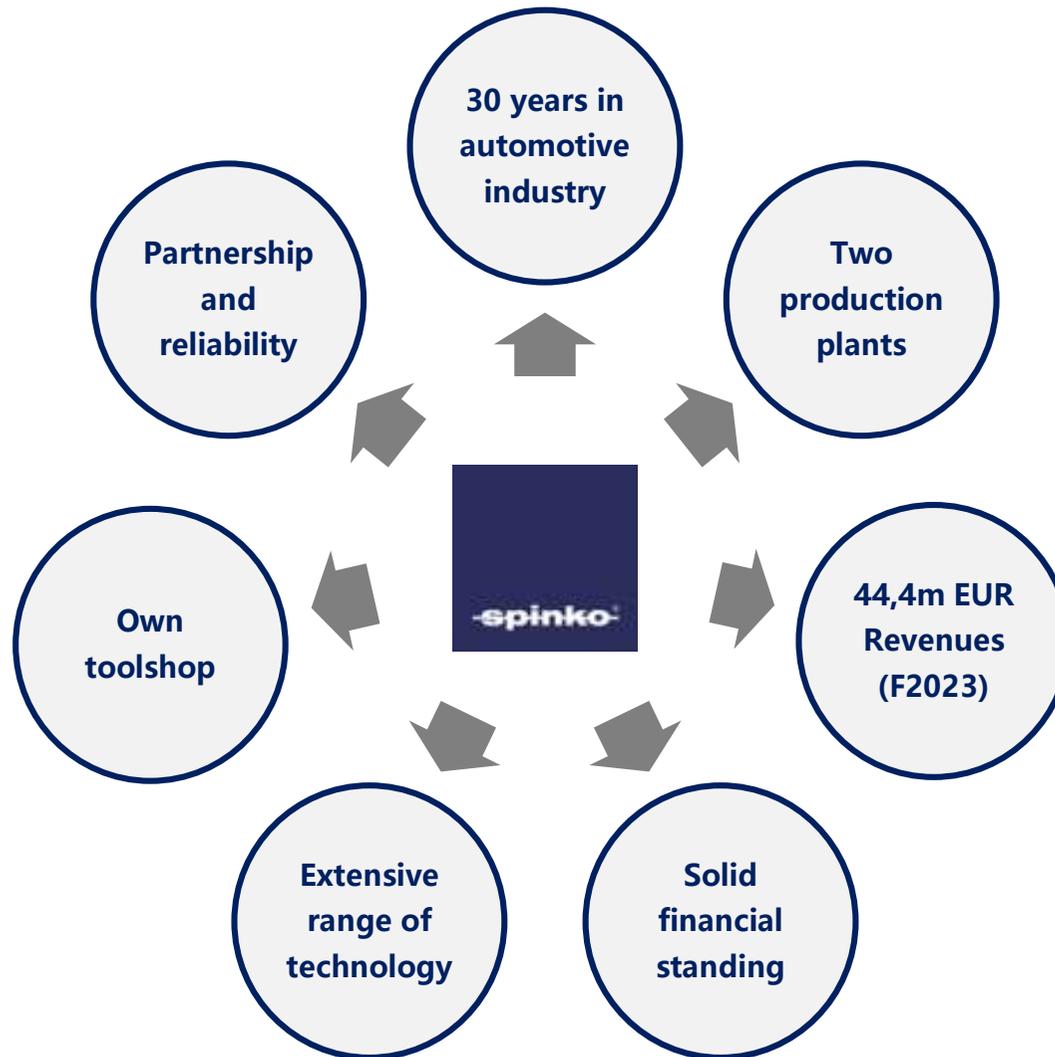
spinko®

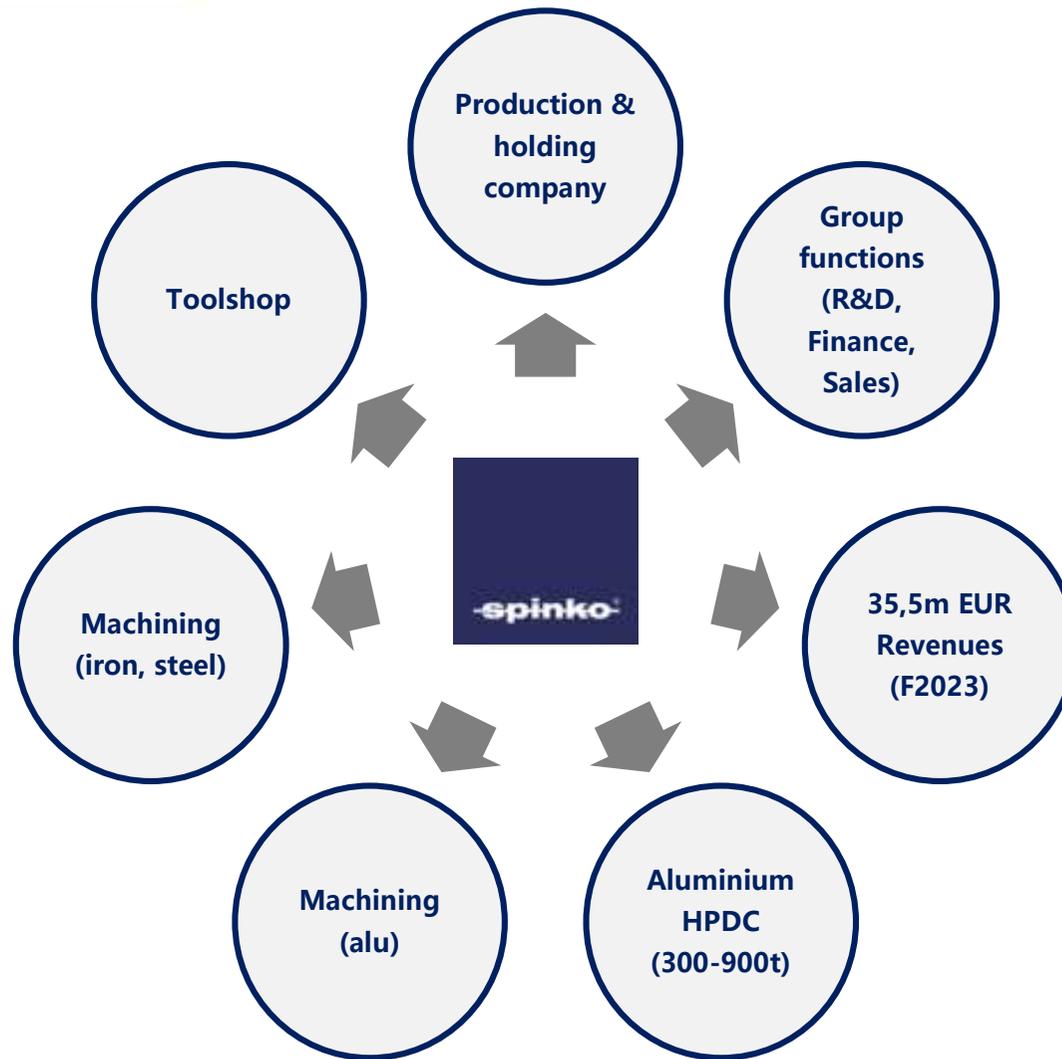
SPINKO Group | Corporate Presentation

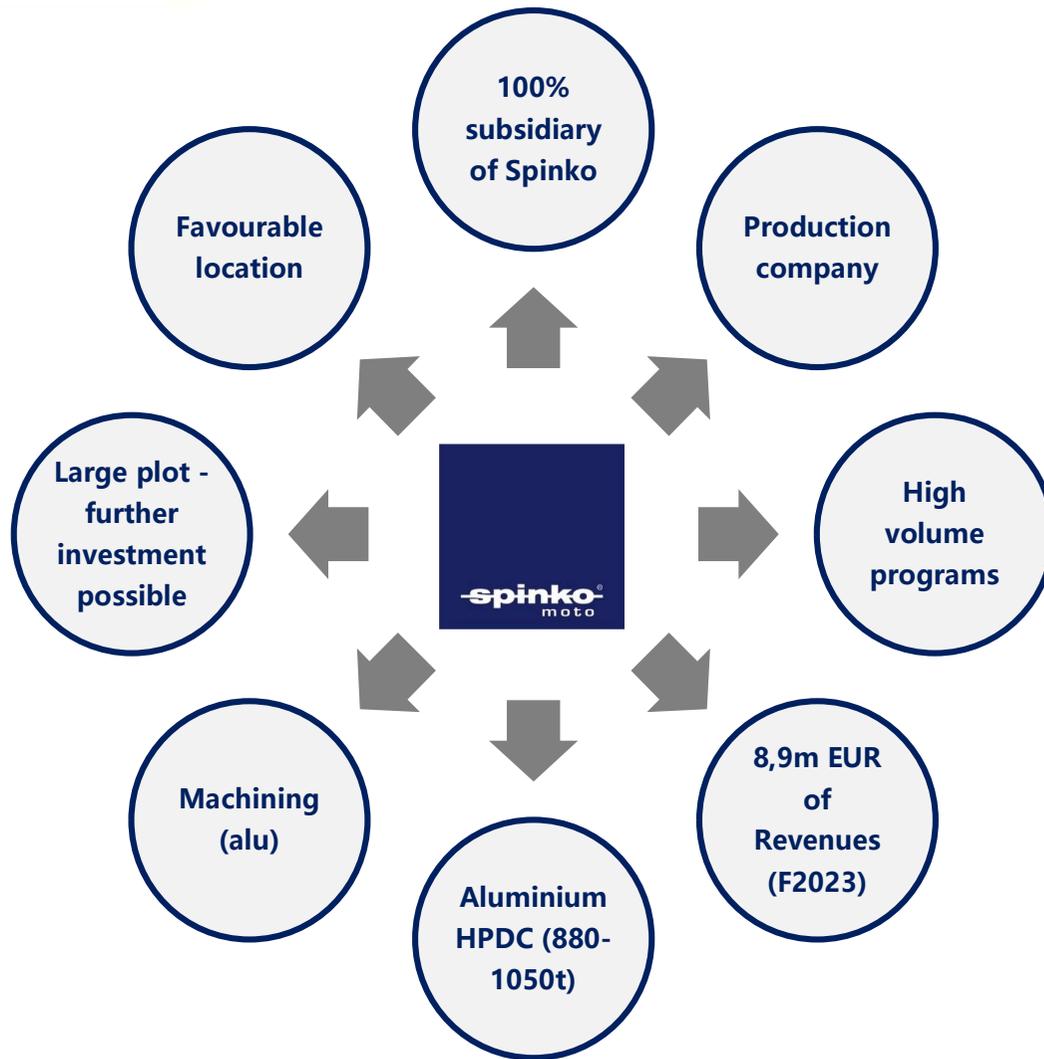
June, 2023

TS 16949 / ISO 9001 / ISO 14001

OUR SUCCESS DRIVEN BY ACTION







Product range | Aluminium Division (1)

spinko®



- compressor housing for turbochargers
- HPDC casting, machining, leakage testing, assembly



- silencer for turbochargers
- HPDC casting, machining



- backplate for turbochargers
- HPDC casting, machining, assembly



- throttle body (air intake systems)
- HPDC casting, machining, leakage testing, assembly



- housings for braking systems, gearboxes
- HPDC casting (vacuum & squeeze pin)
- machining, passivation, leakage testing, assembly



Product range | Aluminium Division (2)

spinko®



- supercharger housing
- HPDC casting, machining, pre-assembly



- supercharger housing
- HPDC casting, machining, pre-assembly



- supercharger cover
- HPDC casting, machining



- supercharger housing
- HPDC casting, machining, pre-assembly



- crossmembers/brackets
- HPDC casting, machining



- pneumatic valve body
- HPDC casting, machining





- bearing housing for turbocharger
- grey iron
- machining, honing, assembly, leakage testing



- control plate (hydraulic systems)
- steel (forging, bar)
- machining



- port plate (hydraulic systems)
- ductile iron
- machining



- distributor (hydraulic systems)
- ductile iron, steel bar
- machining, lapping, salt bath nitriding



- gas reducers
- aluminium
- casting, machining, assembly, impregnation, leakage test



- door & window fittings
- aluminium
- casting, assembly

- led lamp cover
- led lamp body
- casting, machining, assembly, impregnation, leakage test





Types of aluminium alloys used:

- EN-AC 46000 / AC-ALSi9Cu3(Fe) / 226
- EN-AC 47000 / AC-ALSi12(Cu) / 231
- EN-AC 44200 / AC-ALSi12(a) / 230
- EN-AC 44300 / AC-ALSi12(Fe) / 230D



3 melting furnaces (Leszno) 2 melting furnaces (Zielona Góra)

- Reliability and flexibility
- Aggregated melting capacity total of ~32 tonnes/ day

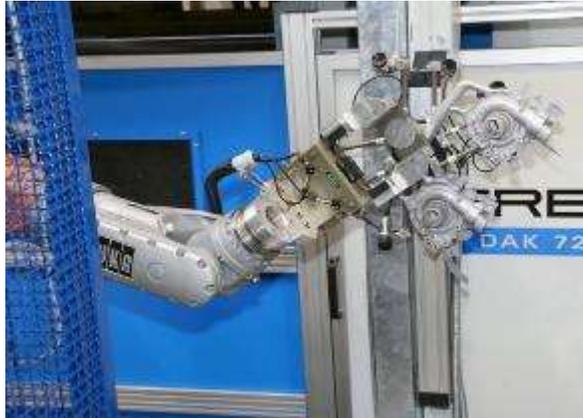


Foundry:

- **16 die casting machines** from 400 to 1050 tons of impact power
- **Among them 8 full automatic die casting machines** with robot & trimming presses
- Spectrometer density index measurement device
- X-Ray machine, CT-X Ray machine
- Special gas refining equipment

FRECH®

**ITALPRESSE
GAUSS**



Trimming:

- 5 – Automatic presses trimming (Tecnopres, Casting cell)
- 9 - Hydraulic presses (Veko, Reis)



Vibratory Finishing:

- 7 – Rotary Vibrators (Rosler)
- Semi-Automatic Compact Centrifuges (Marbad)
- Automatic centrifuges (Rosler)



Shot blasting:

- Continuous-type shot-blasting machine (Agtos)
- Hanger-type shot-blasting machine (Agtos)



Machining department - equipped with [world's leading machines manufacturers](#) :

- **26 x Machines CNC with double spindles**
(Chiron DZ15; Chiron DZ12; Chiron DZ 18; SW BA322)
- **13 x Machines CNC with single spindle**
(Chiron FZ 15; Chiron FZ18L; Chiron FZ08; Brother 32 BN; Mazak VTC)
- **32 x Horizontal Machines Turning**
(Mazak MP 6200 Flex 100; Mazak MP 6200; QTN-200; SQT-200)
- **18 x Vertical Machines Turning**
(Emag VL5i; Emag VL4)
- **Honing machine**

chiron

SW Technology
People

Mazak

brother

EMAG

DMG MORI

Cleaning (5)



Welding



Assembling (6)



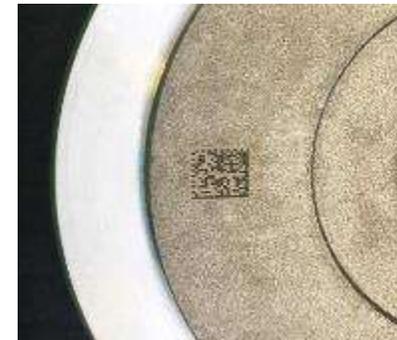
Leakage tests (7)



Dot peen marking (8)



DMC laser marking (8)





Toolshop equipment:

- CAD/CAM systems
- CNC machining milling & turning machines
- Electro-erosion machines

Tool maintenance:

- Moulds cleaned in ultrasonic cleaning machine

Toolshop internal warehouse

Quality Management & Lean Manufacturing

spinko®

IATF 16949 : 2016

Lloyd's Register

Certificate of Approval

This is to certify that the Management System of:

Spinko Sp. z o.o.
ul. Okrężna 20, 64-100 Leszno, Poland

has been approved by LRQA to the following standards:
IATF 16949:2016



P.G. Cornelissen - Area Manager North Europe
Issued by: Lloyd's Register (Polska) sp. z o.o.
for and on behalf of: Lloyd's Register Quality Assurance Limited

Certification date: 27 July 2018
Expiry date: 26 July 2021
Certificate number: 10112321
IATF Certificate number: 0319141

Approval number(s): IATF 16949 – 00014970-001

The scope of this approval is applicable to:
Production of cast aluminum alloy parts, Machining and assembly of aluminum alloy and iron casting parts.



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ISO 14001 : 2015

Lloyd's Register

Current issue date: 27 December 2015
Expiry date: 26 December 2022
Certificate identity number: 10132602

Original approval(s): ISO 14001 - 27 December 2007

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has been approved by Lloyd's Register to the following standards:
ISO 14001:2015

Approval number(s): ISO 14001 – 0053414

The scope of this approval is applicable to:
Casting of aluminium alloy parts, machining of aluminium alloy parts and iron casting parts as well as design and manufacture of window and door handles.



P.G. Cornelissen
Area Manager North Europe
Issued by: Lloyd's Register (Polska) sp. z o.o.
for and on behalf of: Lloyd's Register Quality Assurance Limited



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ISO 9001 : 2015

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ISO 9001:2015



P.G. Cornelissen - Area Manager North Europe
Issued by: Lloyd's Register (Polska) sp. z o.o.
for and on behalf of: Lloyd's Register Quality Assurance Limited

Current issue date: 6 July 2018
Expiry date: 26 July 2021
Certificate identity number: 10134230

Original approval(s): ISO 9001 – 6 November 2006

Approval number(s): ISO 9001 – 0053416-501

The scope of this approval is applicable to:
Casting and machining of aluminium alloys parts. Manufacture of window and door handles.



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A great role in supervising of quality assuring system is played by our laboratories equipped with high-class measuring and control equipment according to automotive industry standards



Measurement of complex spatial elements



Measuring diff. edges



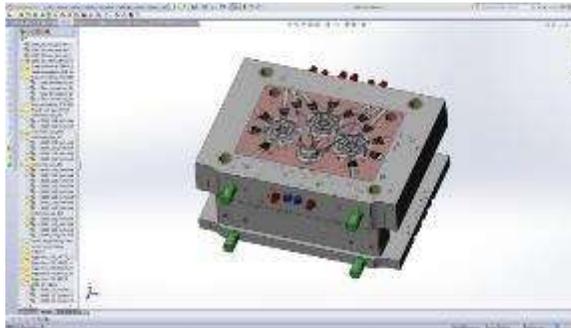
Optical microscope



Cleanless test



Strength test



Solid Works/Solid Edge

Direct communication with machine tools allows to manufacture high quality prototypes, tools or moulds in a very short time



Magma Software

Magma is used for computer simulation of aluminium injection and positioning of all possible casting defects thus allowing to develop proper casting technology before making final tool



3D printer

3D printer used for quick print of offered or designed products and parts

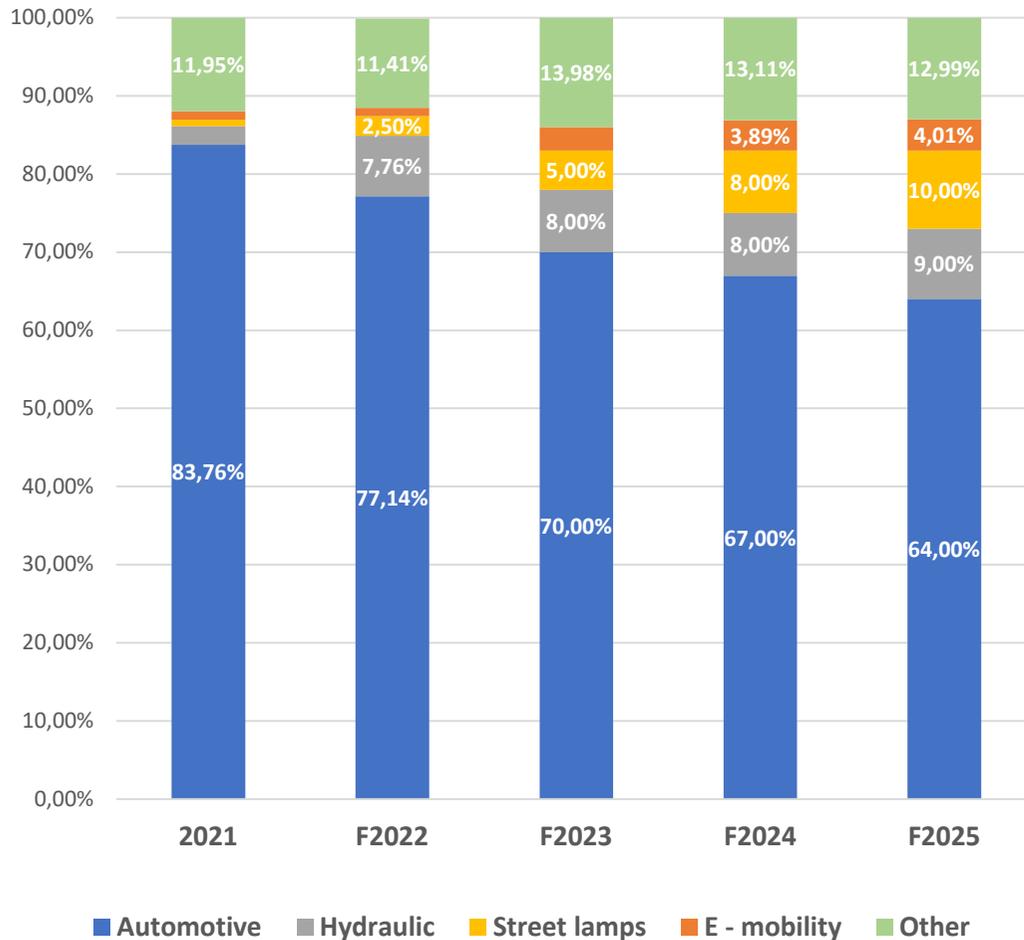
2025 Strategy | highlights

Strategic goal	2022	2025 target
Sales diversification	Sales to automotive >80%	Sales to automotive less than 70% of Consolidated Revenues
Customer dependency	Sales to largest customer (Corp Group) @ ~53% of consolidated revenues	Less than 30% Consolidated Revenues from a single customer (Corp Group)
Value management	Revenues from Aluminium Division @ 60% of consolidated sales	Aluminium Division not less than 60% of consolidated revenues
Capacity utilization	FY2022 consolidated revenues @ 51m EUR	Y2025 Revenues @ 68m EUR (2020-2025 CAGR @ 8,61%)
CO ₂ reduction and renewable energy use	5% share of renewable energy in use	50% share of renewable energy (partly supplied from own source)

2025 Strategy | Market diversification



Sales by Industry [%]



To decrease automotive (combustion engines parts) dependency in our product portfolio:

- **E- mobility** developing, using current experience in automotive
- **Industrial hydraulics:**
 - focus on small & medium weight parts
 - parts with complex manufacturing process
 - Spinko targets global industry leaders
- **Co-operating with foundries (other):**
 - using Spinko' s experience in machining projects with foundries
 - various industries
 - projects with relatively low level of risk and liability
 - PO' s increase forecasted on Y2023 – filling the gap caused by BH significant drop
- **Street lamps:**
 - High development potential due to replacement of infrastructure by led lamps and numbers of new infrastructure projects
 - Spinko targets global leaders



Sustainability | Goals and activities

spinko®



Sponsorship of hospital in Leszno
Sports sections
Accident prevention
investments and modernizations of working environment (AC and ventilation)



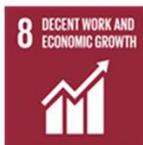
Partnership with universities and technical schools
Support of employees during education process
Program of career development
Continuous learning and skills improvement



One recruitment process and motivation system for all
Equal remuneration system
Equal working conditions



Sewage management improvement
Closed circuits of industrial water
Reduction of water consumption



Diversification of zone of operations
Increase of orders and output
Increase of AV
Increase in wages and social benefits
Occupational Health and Safety improvements
Risk assessment&management (legal, financial, operating, PR etc. Risks)



Research agenda
Building an R&D center
Participation in UE programs
Expansion and modernization of infrastructure
Products design and technological process development



Disabled friendly infrastructure
Cooperation with PFRON
Equal treatment of all staff
Implementation of the assumptions of the Spinko's code of ethics



Relationship with Customers and Suppliers
Supporting of local market
Production process improvements
Reduction of energy consumption, waste level and disposable packing
Stable and pro-ecological process of chemicals and waste management



Pro-ecological investments
Clean production, zero pollutions
Waste segregation
Reduction of energy consumption and energy recovery
Transportation process optimization



Pro-ecological production
Reduction of greenhouse gas emission
Detailed waste segregation
Modernization of production lines
Modernization of water, gas, electric and sewage infrastructure



Thank you for your attention

