



Nano 
IndustrialTech



Who are we?

Nano Industrial Tech, is a holding company of **LATAM INVESTMENT GROUP**, which specializes in the development of Nano-Materials obtained from metal extraction processes, and whose main objective is to develop technologies for the industrial scaling of this business model.

Nano Industrial Tech

We are producers of Nano-Materials and we are dedicated to developing our own technology for industrial scaling of the uses and applications of Nano-Materials, facilitating social economic development with an industrialization route based on small-scale mining in Latin America and the world.

What do we do?

We are dedicated to the industrial production of:

- 1.- NanoCu
- 2.- Carbon nanotubes
- 3.- Possibility of isolation of Graphene
- 4.- NanoAu
- 5.- NanoAg
- 6.- NanoLi
- 7.- Alternative Fuels
- 8.- Bioplastics
- 9.- Sanitizers with NanoCu
- 10.- Impregnations in fabrics with NanoCu
- 11.- Implementation and enabling of modular plants of our nano-materials production systems.
- 12.- Implementation and habilitation of modular plants of the application technologies of our nano-materials.

Why choose us?

Our particular vision of the industry, the experience in Small Big Mining and the development of our own technologies have positioned us as ACTIVE MANAGERS OF NANOINDUSTRIALIZATION AT LEVEL WORLDWIDE, and allow us to offer the following to our partners and customers:

- 1- Supplying premium quality nanomaterials to the global industry. ♠
- 2.- Partner with investors to:
 - a) Implement modular plants, produce and commercialize nanomaterials in different countries ♦
 - b) NanoIndustrialize processes for the application of nanomaterials in various industries. ♣
- 3.- Generation of new nanotechnological developments on demand. ♥

VISION

We believe that it is possible to generate added value to the natural resources of Latin America through nanotechnology, and to make available to the industry, high-tech tools created in Chile and industrialized worldwide.

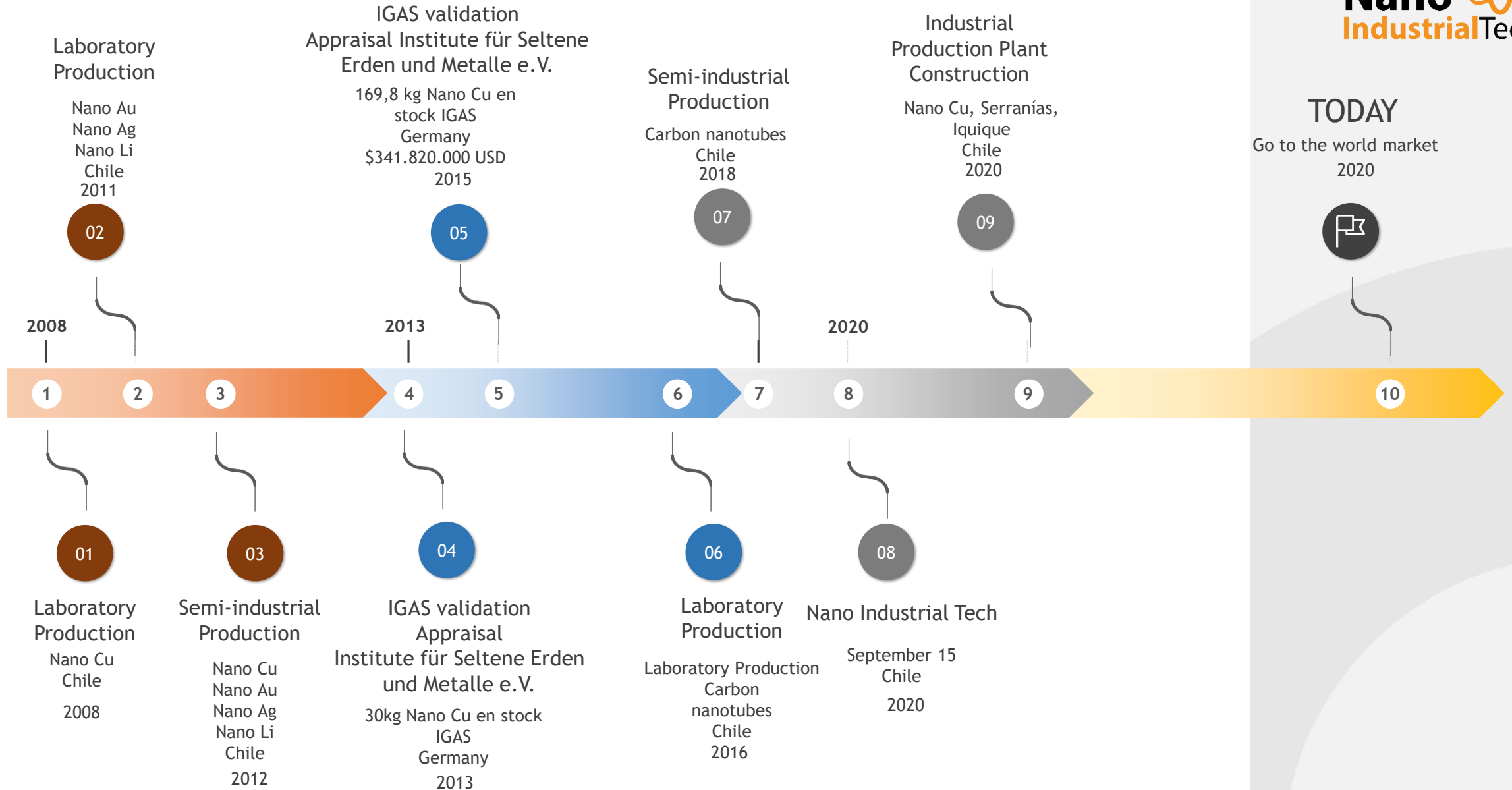
OUR MISSION

Integrate the different branches of human knowledge, to develop efficient technologies and low cost of implementation that generate added value to natural resources, transforming them into nano materials necessary to produce innovative and environmentally friendly products such as Biofuels, Bioplastics, Sanitizers and Impregnants of fabrics, among many others.



Our Products

Timeline Nano-Materiales



NanoCu



Nano-sized metallic Cu.

Our production batches are characterized in composition and morphology by the INDEPENDENT GLOBAL ASSAYING SERVICES (IGAS) in Goslar (Germany)

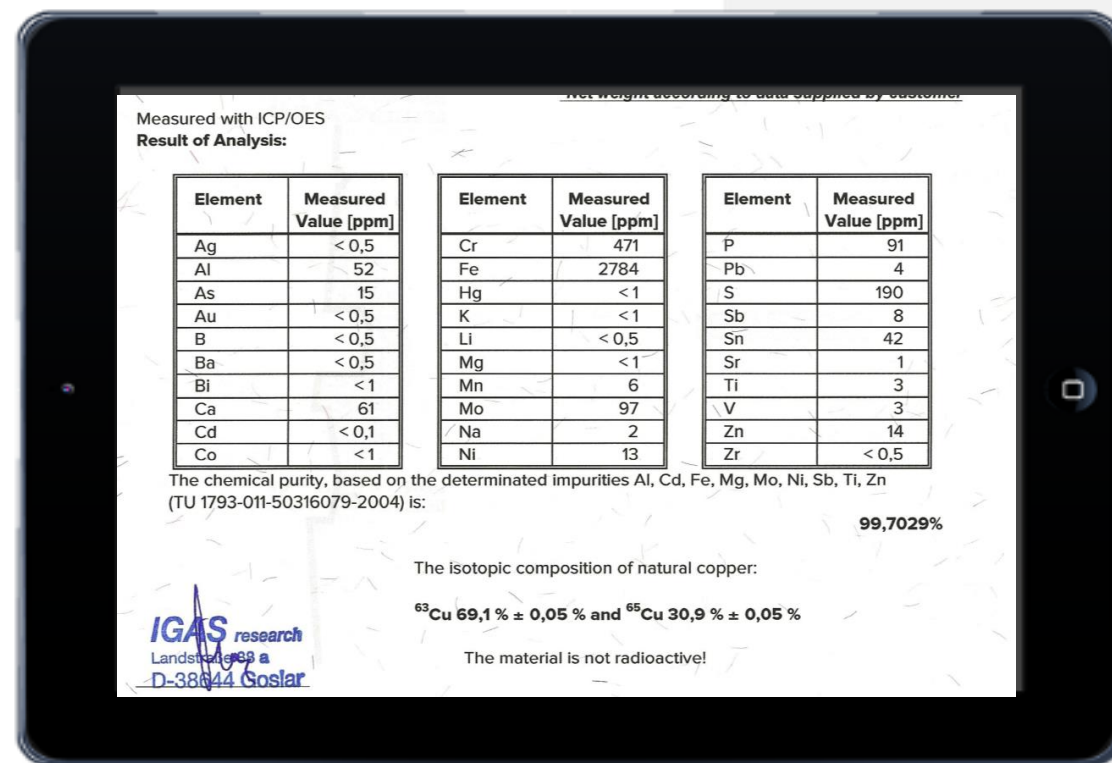
Applications: nanocatalysis-electronics-sanitizers

Current production capacity: 60 kg / month

Under construction: plant 1200kg / month

Stock certified and in custody in Germany: 169.6kg

Stock available in Chile: 34.5kg



International Certification

IGAS research - Landstraße 88a - D - 38644 Goslar

AVANCE Biotechnologies Chile S.A.
Señor Mario Reyes
Calle Nueva 5367
Santiago de Chile
CHILE

re.: confirmation

Goslar, 29.05.2015

Dear Sir,

we herewith confirm that we keep in our custody on your behalf 5 (five) lots of copper powder (169,8 kgs in total) with IGAS research laboratory nos. 0002016, 0002044, 0002057, 0002080 and 0002582. The material has been sampled, sealed and analysed. For each of these lots we have issued a separate safekeeping receipt, based on the result of the analysis and an evaluation which was made by an independent expert. The total value of these 169,8kgs were calculated as US\$341.820.000,-.

Sincerely


IGAS 
Dr. Ernot Joachim Martin
D-38644 Goslar

Inhaber:
Dr. Ernot Joachim Martin
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Carbon nanotubes



Carbon Nanotube (CNT's) are allotropes of carbon, such as diamond, graphite and graphene. There are different types of NTC's depending on the graphite layers that form it, they can be single-walled carbon nanotubes (SWCNT's) and multiple-walled carbon nanotubes (MWCNT's).

Applications: nanocatalysis-filters-sintered materials.

Stock available in Chile: 5kg

Current productive capacity: 100kg / month

Projected productive capacity: 1ton / month



NanoC



NanoC are carbon nanoparticles and allotropes of carbon, such as diamond, graphite, NTC's and graphene.

In nanophotography our NanoCs (size 30nm approx.) Are observed on a ceramic surface. Image obtained by CEIT (University of Navarra, Spain)

Applications: nanocatalysis-filters-sintered materials.

Stock available in Chile: 5kg

Current productive capacity: 100kg / month

Projected productive capacity: 1ton / month



Filters with Carbon nanotubes

NanoC



Espectroscopia IR

CONCLUSIONS

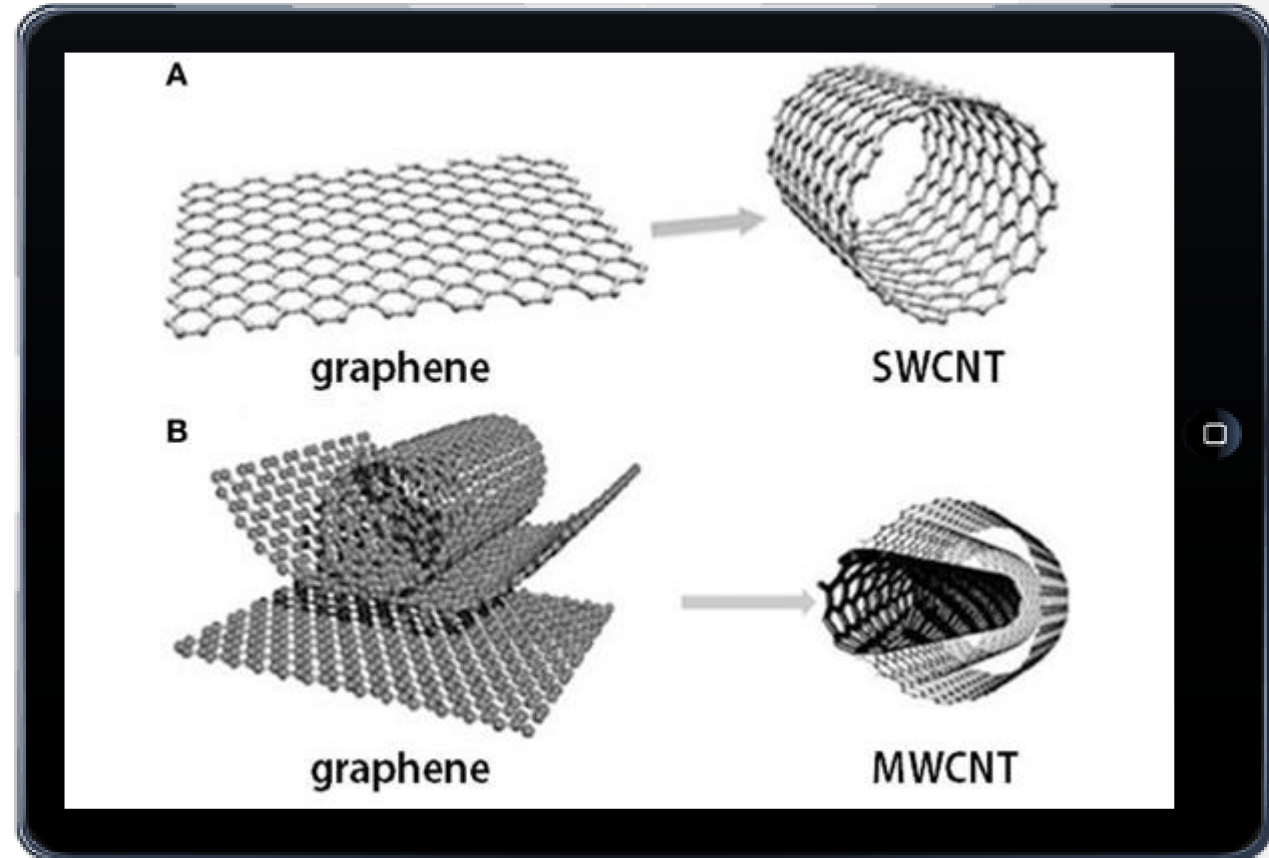
According to the functional groups in the dry samples of Cellulose Riles before and after treatment, the greatest decrease in absorbance is observed in the post-treatment sample and is present in the functional groups of phenols, phosphoric acid, amines, esters, carboxyl's and sulfur groups.

This decrease is responsible for the difference between the spectra of the pre and post treatment samples and for the greater similarity of the post treatment sample to the water spectrum.

When comparing the spectra and decrease in functional groups, improvements in the quality of these post-treatment waters are evidenced, in which color changes are observed from yellow to colorless and odor from eucalyptus aroma to odorless associated with the variation in PH, being more neutral. in the post-treatment sample compared to the pre-treatment. All these changes demonstrate the greater similarity of the post-treatment sample with the water standard.

These global improvements in the quality of the effluent water project a greater sustainability of the process and allow the use of this water in internal processes or in use in sewage systems with its consequent energy savings. But this still would not be suitable for human consumption.

This reuse of water as a vital element results in saving this element and constitutes a contribution to the environment.



Carbon Nanotubes and NanoC ♡

Graphene are allotropes of carbon, like diamond, graphite, and carbon nanotube. Graphene arises when 6 carbon atoms join to form a hexagon, which join with other hexagons creating a monolayer in a single plane. Given this form of union, it acquires the properties that make it a strong material and has other notable qualities, such as the high mobility of its electrons and conductivity.

In the process of obtaining carbon nanotubes, it is possible to isolate graphene.

Applications: Conductivity-nanocatalysis-electronics-nanostructured mesoporous materials.

Modular Plants Nano-Materials Production

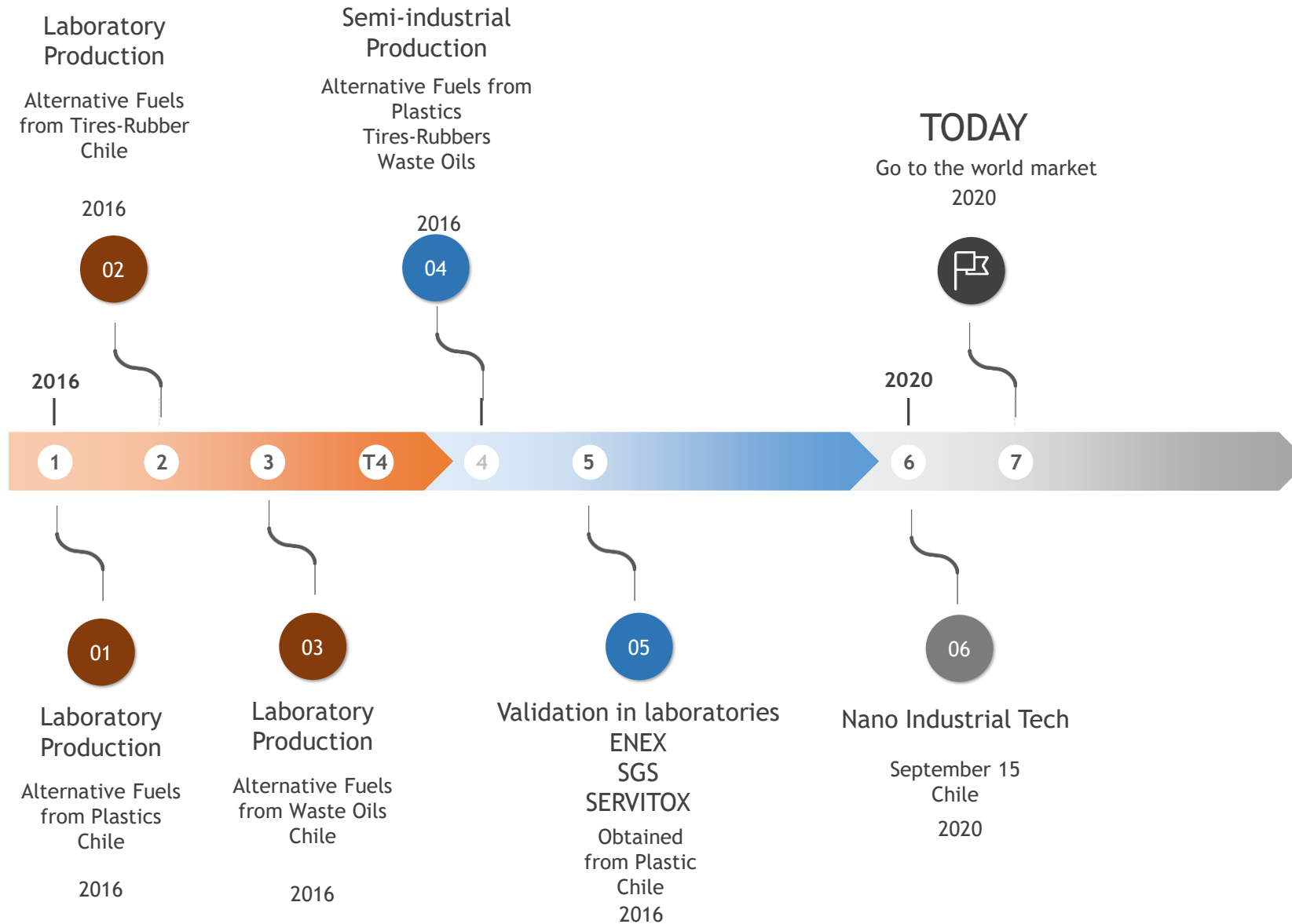
Implementation and qualification of production plants of:

- NanoCu
- NanoAg
- NanoLi
- Carbon nanotubes

*Productive capacity: 1200kg/month



Timeline Alternative Fuels



Combustibles Alternativos



Obtaining alternative fuels to diesel, gasoline and kerosene, from:

- Plastics from the petrochemical industry.
- Tires or scrap tires.
- Waste oils.

It is important to mention that the alternative fuels obtained generate smoke and waste-free combustion, with a caloric value similar to conventional fuels.

Total weight: 3.4 Ton

Capacity: 1 Ton plastic

All types of plastic can be used, no prior cleaning is necessary.

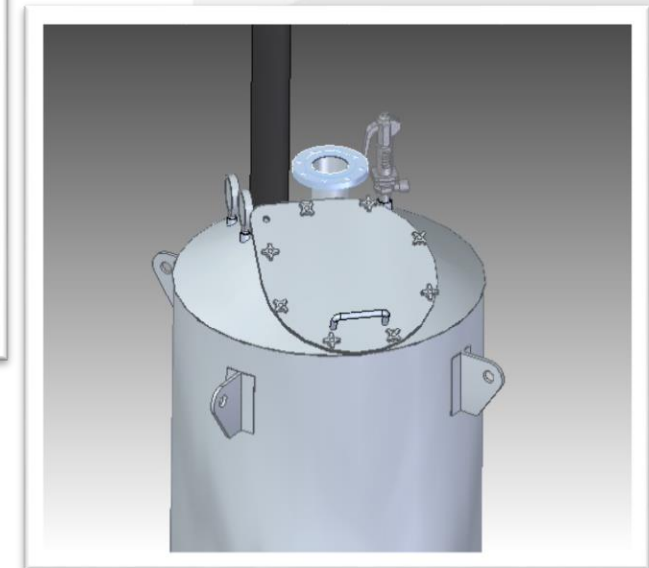
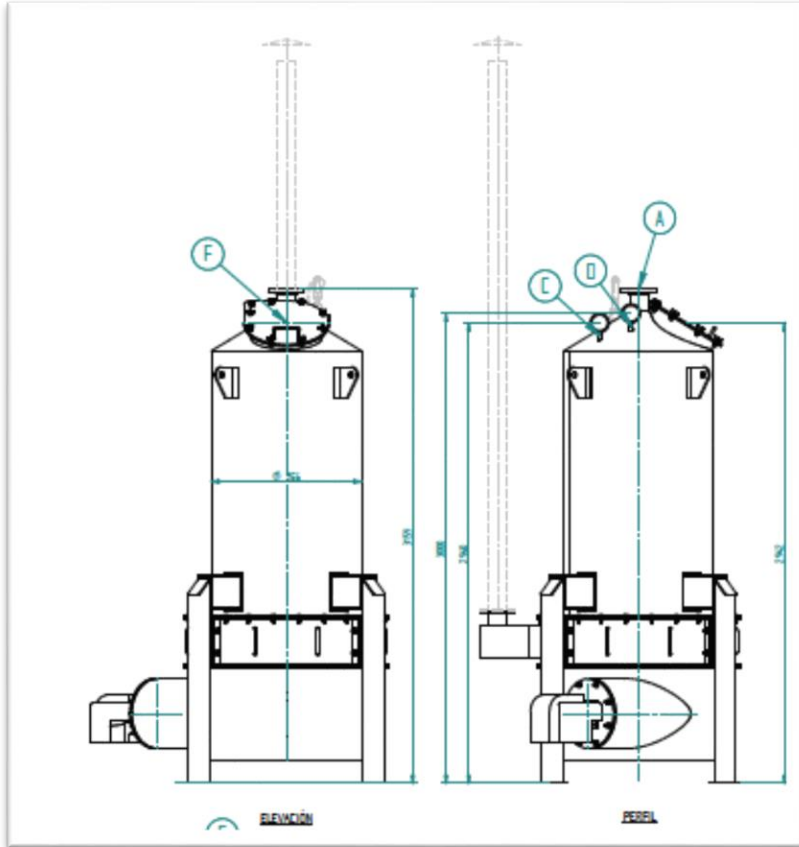
1.2 kg plastic conversion ---- 1L Diesel (+ 83% efficiency)

24 hrs / 7 days (non-stop production)

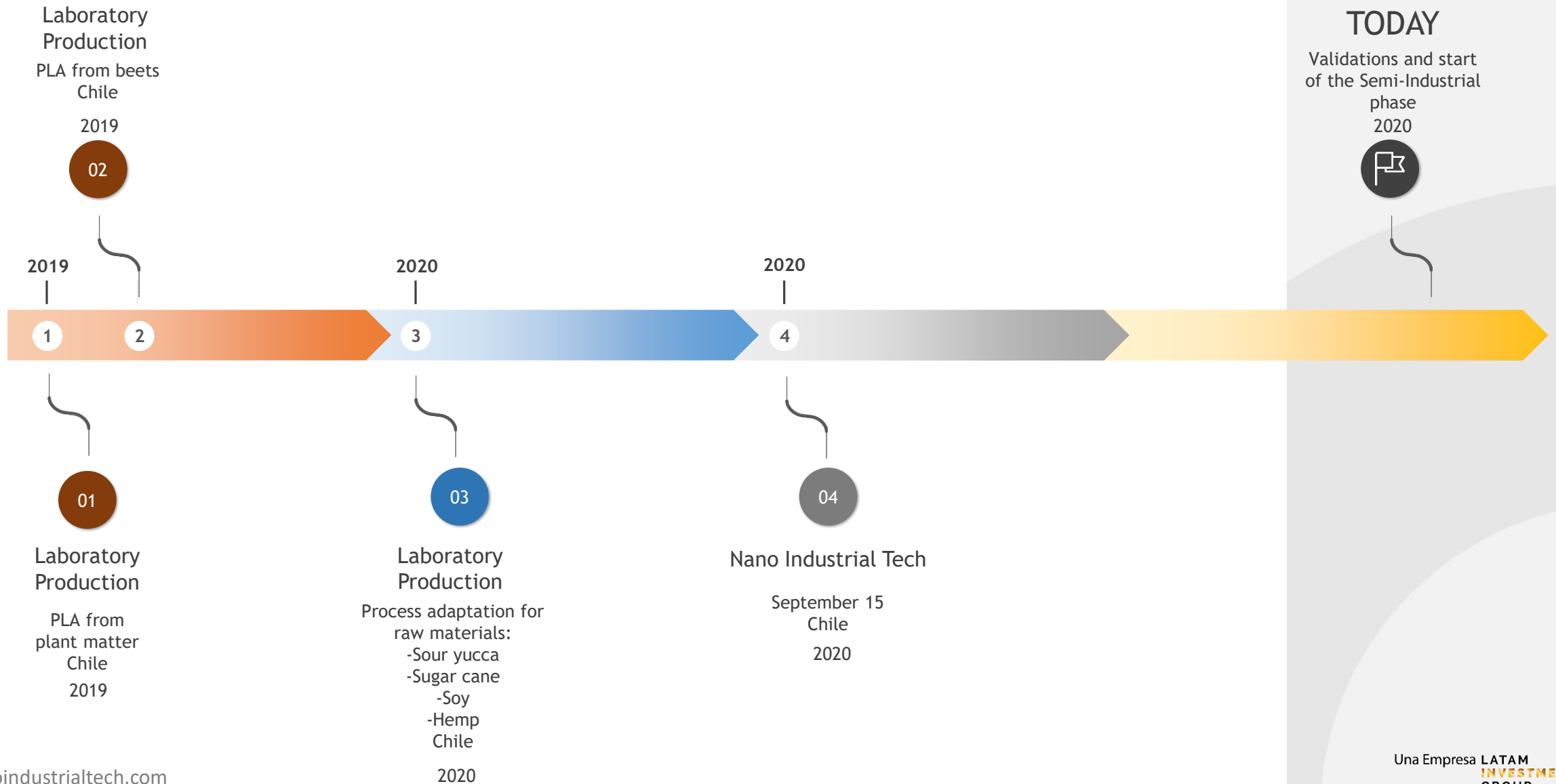


(WATCH VIDEO)

Plant Diagram



Timeline Bioplastics (poly-lactic acid, PLA)



Production Plant Bioplastics (PLA)

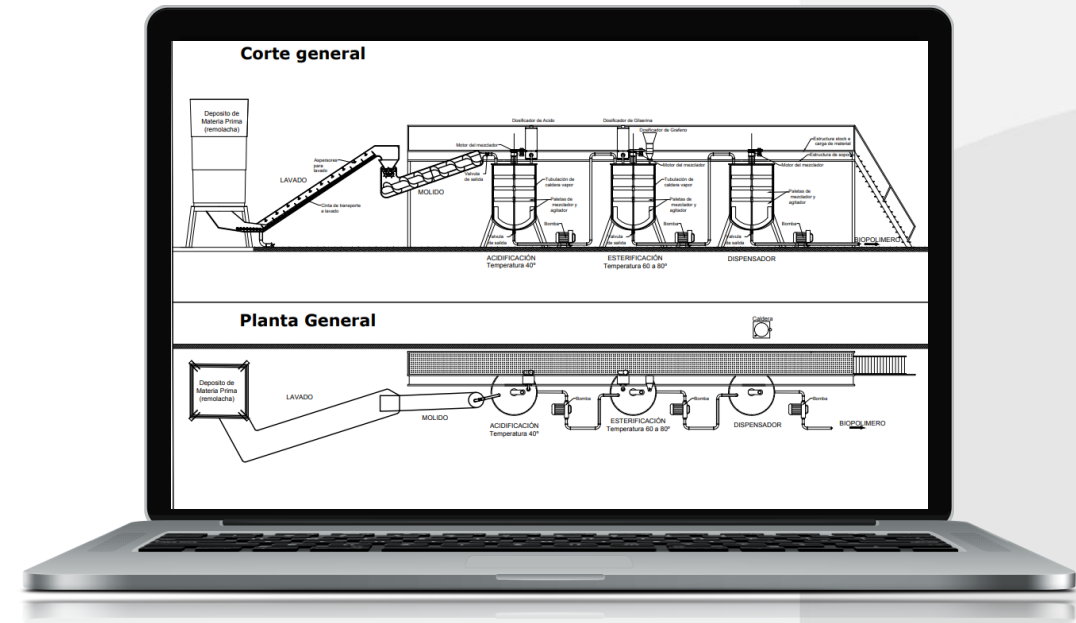


Obtaining polymers of biological origin, such as polylactic acid (PLA), is an effective tool to reduce the use of plastics derived from petrochemicals, which are highly polluting in the environment.

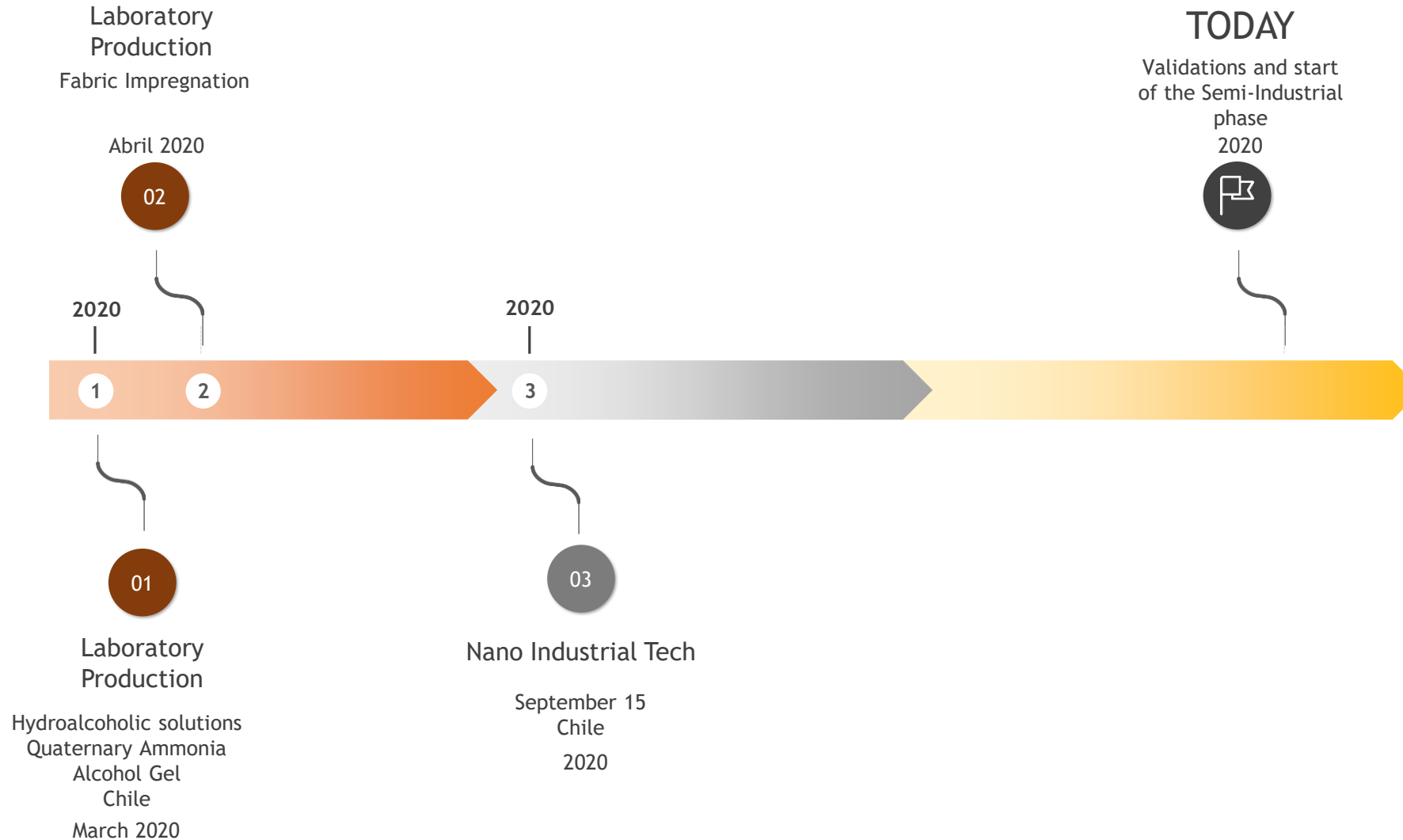
This production plant is designed to obtain PLA from beets through the use of nanotechnology.

Processing capacity: 700ha of annual beet.

Possible raw materials: beet - sour cassava - soybean - hemp
- sugar cane



Timeline Fabric Sanitizers and Impregnation with Nano Cu



Sanitizers and Impregnation of fabrics with NanoCu



Formulation to order using metallic Cu of nanometer size. Our production batches are characterized in composition and morphology by the INDEPENDENT GLOBAL ASSAYING SERVICES (IGAS) in Goslar (Germany)

Measured with ICP/OES
Result of Analysis:

Element	Measured Value [ppm]
Ag	< 0,5
Al	52
As	15
Au	< 0,5
B	< 0,5
Ba	< 0,5
Bi	< 1
Ca	61
Cd	< 0,1
Co	< 1

Element	Measured Value [ppm]
Cr	471
Fe	2784
Hg	< 1
K	< 1
Li	< 0,5
Mg	< 1
Mn	6
Mo	97
Na	2
Ni	13

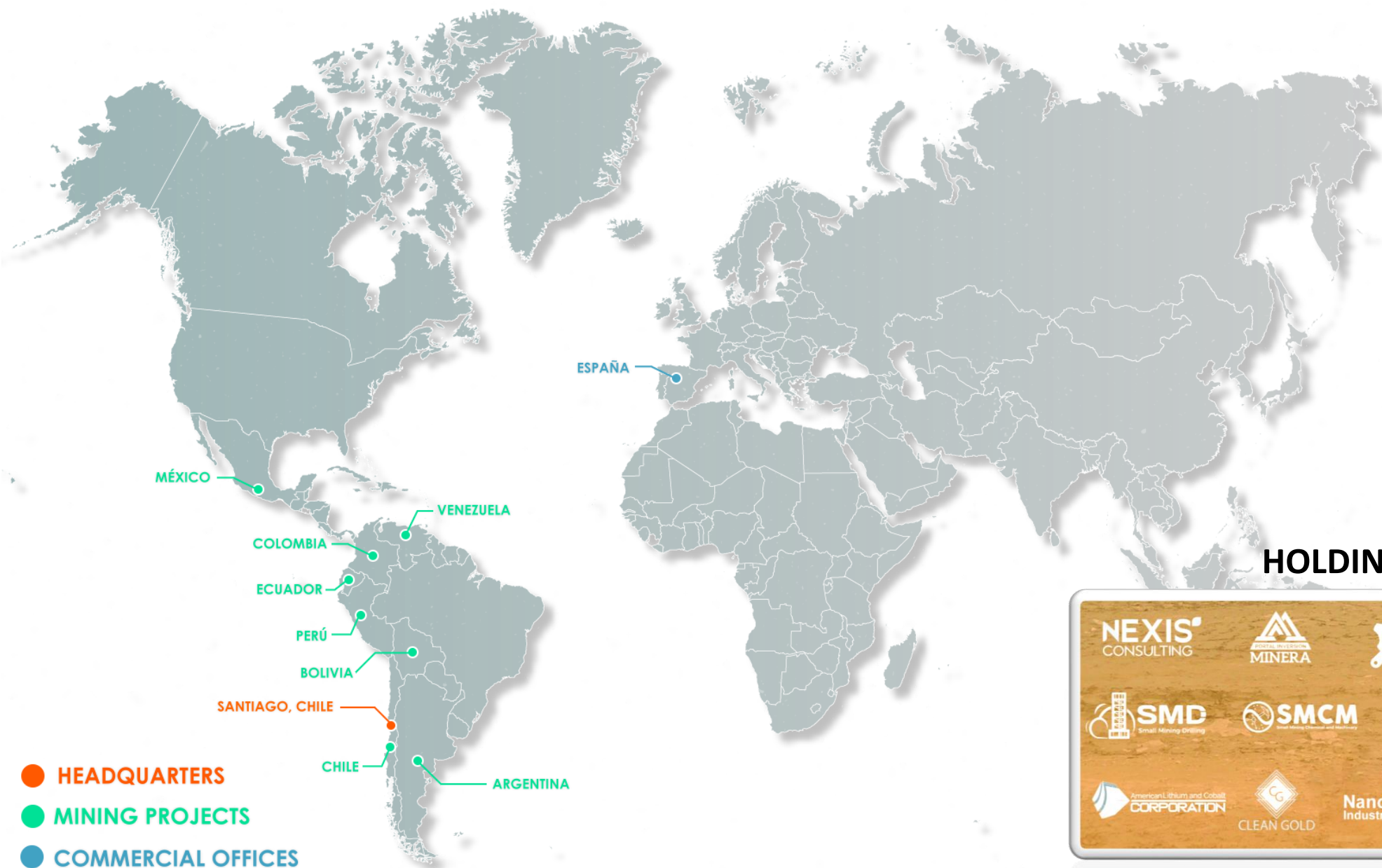
Element	Measured Value [ppm]
P	91
Pb	4
S	190
Sb	8
Sn	42
Sr	1
Ti	3
V	3
Zn	14
Zr	< 0,5

The chemical purity, based on the determined impurities Al, Cd, Fe, Mg, Mo, Ni, Sb, Ti, Zn (TU 1793-011-50316079-2004) is: **99,7029%**

The isotopic composition of natural copper:
 ^{63}Cu 69,1% \pm 0,05% and ^{65}Cu 30,9% \pm 0,05%

The material is not radioactive!

IGAS research
Landstraße 39 a
D-38644 Goslar



HOLDING

LATAM INVESTMENT GROUP

NEXIS[®] CONSULTING

MINERA

S3M Small Mining

LATAM MINERALS EXPORT

SMD Small Mining Drilling

SMCM Small Mining Chemical and Metallurgy

SMKM Small Mining Ore Milling

SMCT Small Mining Data Tech

American Lithium and Cobalt CORPORATION

CLEAN GOLD

Nano IndustrialTech

CLEAN COPPER

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