

Context

Dexco has industrial activities in many regions throughout Brazil and Colombia, by means of transformation processes of raw materials from natural sources (wood, clay, metals and minerals) into products (wood panels, sanitary ware, ceramic tiles and metal fittings). It also has processes that use materials from natural sources, but previously transformed (plastic and cement).

Its products are destined to further transformation (wood panels) or direct use by consumers as final products (sanitary ware, metal fittings, electric showers, ceramic tile and concrete tiles).

According to SICS (Sustainability Industry Classification System), Dexco is classified into the consumer goods and building materials and furnishings sectors.

The objective of this study is to identify potential direct impacts on biodiversity related to Dexco's industrial operations. The scope of this assessment covers Dexco's own industrial plants and does not evaluate dependencies, risks and opportunities.

Suppliers, clients, and OEM products marketed by Dexco are also outside the boundaries of this study.

Method

LEAP approach

It is a protocol aiming to guide organizations on identifying and assessing nature-related impacts, dependencies, risks and opportunities from their operations.

The LEAP approach (Locate, Evaluate, Assess, Prepare) was developed by the TNFD (Taskforce for nature-related financial disclosures) as a way to help organizations to follow its recommendations. Its first official version was published in 2023.

The protocol is divided in steps, which allow organizations to continuously improve their reports as they become more mature on the subject. This study covers steps L1 to E4 of LEAP protocol.

| Locate | Evaluate | Assess | Prepare |
|--|---|--|---|
| L1. Span of the business model and value chain | E1. Identification of environmental assets, ecosystem services and impact drivers | A1. Risk and opportunity identification | P1. Strategy and resource allocation plans |
| L2. Dependency and impact screening | E2. Identification of dependencies and impacts | A2. Adjustment of existing risk mitigation and risk and opportunity management | P2. Target setting and performance management |
| L3: Interface with nature | E3. Dependency and impact measurement | A3. Risk and opportunity measurement and prioritization | P3. Reporting |
| L4: Interface with sensitive locations | E4. Impact materiality assessment | A4. Risk and opportunity materiality assessment | P4. Presentation |

Products classification: SICS and ENCORE

Dexco's products were classified into sectors and industries according to SICS, as usual reporting practices (SASB follows the same classification).

Data available on the ENCORE platform was used for impact screening and assessment, which is a tool that helps organizations to explore their exposure to nature-related risks and to understand their dependencies and impacts on nature. This is one of the tools listed by TNDF as source of information. The classification system used by ENCORE differs from SICS, as shown on the table below.

| Business Product | | SICS | | ENCORE | | |
|----------------------------|--------------------------|----------------|-----------------------------------|---|---|--|
| (in Portuguese) | Product | Sector | Industry | Sector – Sub-industry | Production process | |
| Painéis | Wood panels and flooring | Consumer goods | Building products and furnishings | Materials - Forest products | Production of forest and wood-based products | |
| Metais | Metal fittings | Consumer goods | Building products and furnishings | Industrials – Building products | Building products production | |
| Louças | Sanitary ware | Consumer goods | Building products and furnishings | Industrials – Building products | Building products production | |
| Hydra | Electric showers | Consumer goods | Building products and furnishings | Consumer discretionary – Household appliances | Manufacture of machinery, parts and equipment | |
| Castelatto | Concrete tiles | Consumer goods | Building products and furnishings | Industrials – Building products | Building products production | |
| Revestimentos Cerâmicos | Ceramic tiles | Consumer goods | Building products and furnishings | Industrials – Building products | Building products production | |



Interface with nature

Sites location (production units)

| Business unit | Site | State | City | Biome | IUCN-GET functional group | Area (hectares) |
|---------------|--|-------------------|-------------------------|----------------|--------------------------------------|-----------------|
| | Agudos | São Paulo | Agudos | Cerrado | T7.4 Urban and industrial ecosystems | 42.64 |
| Painéis | Itapetininga | São Paulo | Itapetininga | Cerrado | T7.4 Urban and industrial ecosystems | 57.19 |
| Paineis | Uberaba | Minas Gerais | Uberaba | Cerrado | T7.4 Urban and industrial ecosystems | 35.71 |
| | Taquari | Rio Grande do Sul | Taquari | Pampa | T7.4 Urban and industrial ecosystems | 8.20 |
| | São Paulo | São Paulo | São Paulo | Mata Atlântica | T7.4 Urban and industrial ecosystems | 4.17 |
| Metais | Jundiaí | São Paulo | Jundiaí | Mata Atlântica | T7.4 Urban and industrial ecosystems | 13.25 |
| Jacareí | Jacareí | São Paulo | Jacareí | Mata Atlântica | T7.4 Urban and industrial ecosystems | 2.00 |
| Hydra | Aracaju | Sergipe | Aracaju | Mata Atlântica | T7.4 Urban and industrial ecosystems | 2.38 |
| Castelatto | Atibaia | São Paulo | Atibaia | Mata Atlântica | T7.4 Urban and industrial ecosystems | 6.81 |
| | Jundiaí | São Paulo | Jundiaí | Mata Atlântica | T7.4 Urban and industrial ecosystems | 25.73 |
| Louças | Recife | Pernambuco | Cabo de Santo Agostinho | Mata Atlântica | T7.4 Urban and industrial ecosystems | 7.93 |
| | Painéis Itapetininga Uberaba Taquari São Paulo Jundiaí Jacareí Hydra Aracaju Castelatto Atibaia Jundiaí | Paraíba | João Pessoa | Mata Atlântica | T7.4 Urban and industrial ecosystems | 6.10 |
| | Criciúma (RC1) | Santa Catarina | Criciúma | Mata Atlântica | T7.4 Urban and industrial ecosystems | 64.22 |
| Dovestimentes | Criciúma (RC 2) | Santa Catarina | Criciúma | Mata Atlântica | T7.4 Urban and industrial ecosystems | 14.58 |
| Revestimentos | Urussanga | Santa Catarina | Urussanga | Mata Atlântica | T7.4 Urban and industrial ecosystems | 15.79 |
| | Botucatu | São Paulo | Botucatu | Cerrado | T7.4 Urban and industrial ecosystems | 79.84 |
| | | | | | TOTAL | 386.54 |



Interfaces with sensitive locations

Location sensitivity analysis

The assessment for identification of sensitive areas for biodiversity was conducted considering the geographical location of each productive unit site and its surroundings.

The sensitivity level is defined by overlapping the sites with publicly available biodiversity-related databases and satellite imagery. Each site was assessed through 18 databases and criteria. Examples include: perimeters of official protected areas, key biodiversity areas, intact forest landscapes, mangroves, endemic bird areas, water streams proximity and native vegetation fragments.

The assessment results are summarized on the table below. The complete relation of the criteria and detailed results are registered in a separated spreadsheet.

| | Sensitivity level for biodiversity – Locations of Dexco's industrial sites | | | | | | | | | | |
|---------------|--|---------|-----|-----------|--------|----------------|----------|------------|-----|---------|--------|
| Painéis Hydra | | Louças | | Metais | | Rev. Cerâmicos | | Castelatto | | | |
| Agudos | Low | Aracaju | Low | Recife | Medium | Jundiaí | Low | Criciúma 1 | Low | Atibaia | Medium |
| Itapetininga | Low | | | Paraíba | Low | Jacareí | Low | Criciúma 2 | Low | | |
| Taquari | Low | | | Jundiaí | Low | São Paulo | Very low | Urussanga | Low | | |
| Uberaba | Very low | | | Queimados | Low | | | Botucatu | Low | | |

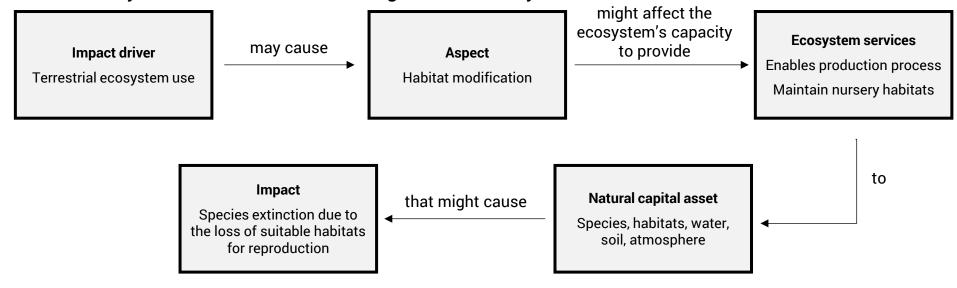
Impact identification and screening

Materiality of impact drivers for sectors and processes

The ENCORE platform materiality analysis of impact drivers was used to get a relation of possible impacts from the industrial operations of each sector. Due to their close correlation to biodiversity, only impacts to the Species and Habitats natural capital assets categories were assessed.

The impact drivers are activities that might be held by an organization and could have the potential to generate environmental aspects and impacts. The environmental aspects describe changes on the natural capital asset caused by the driver, while the impacts describe the way the aspect affects the natural capital asset's capacity to provide an ecosystem service.

In this assessment, only drivers with medium or higher materiality levels for each sector were considered.



Impact measurement and materiality assessment

Impact classification

The material impacts were identified through the assessment of each impact and its driver characteristics and severity and if Dexco's activities could directly cause them or only indirectly.

Each of the seven criteria was given a score from 0 to 3. If the math product of all scores is 12 or higher, the impact is considered material. Material impacts can be direct or indirect.

When the impact driver is classified as "not occurring", the assessment ends and the impact is considered immaterial (score 0).

The assessments of every criterion to each impact and the detailed results are registered in a separate spreadsheet. Also, this database lists the natural capital assets possibly affected, the ecosystem services involved and the drivers for each assessed impact.

| Impacts identified | Madeira | Metais | Louças | Revestimentos cerâmicos | Hydra | Castelatto |
|--------------------|---------|--------|--------|----------------------------|-------|------------|
| Material direct | 6 | 9 | 9 | 9 | 9 | 9 |
| Material indirect | 38 | 75 | 75 | 75 | 75 | 75 |
| Immaterial | 338 | 473 | 473 | 473 | 562 | 473 |
| Total | 382 | 557 | 557 | 557 | 646 | 557 |

Direct material impacts - Madeira (wood panels)

| Driver | Aspect | Impact | Natural capital assets impacted | Ecosystem services affected |
|------------------|-----------|--|---------------------------------|---|
| Water pollutants | Pollution | Excess nutrient loads and sunlight cause imbalances in micro algae concentrations. Harmful toxins produced by the bloom kill beneficial cyanobacteria. | Species Habitats | Direct physical input Fibers and other materials |
| | | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | | Species |



Direct material impacts – Metais (metal fittings)

| Driver | Aspect | Impact | Natural capital assets impacted | Ecosystem services affected |
|------------------|-----------|--|---------------------------------|---|
| Water pollutants | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Species | Enables production process Water quality |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |
| Solid waste | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |



Direct material impacts – Louças (sanitary ware)

| Driver | Aspect | Impact | Natural capital assets impacted | Ecosystem services affected |
|------------------|-----------|--|---------------------------------|---|
| Water pollutants | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Species | Enables production process Water quality |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |
| Solid waste | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |



Direct material impacts – Revestimentos cerâmicos (ceramic tiles)

| Driver | Aspect | Impact | Natural capital assets impacted | Ecosystem services affected |
|------------------|-----------|--|---------------------------------|---|
| | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| Water pollutants | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Species | Enables production process Water quality |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |
| Solid waste | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |



Direct material impacts - Castelatto (concrete tiles)

| Driver | Aspect | Impact | Natural capital assets impacted | Ecosystem services affected |
|------------------|-----------|--|---------------------------------|---|
| | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| Water pollutants | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Species | Enables production process Water quality |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |
| Solid waste | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |



Direct material impacts – Hydra (electric showers)

| Driver | Aspect | Impact | Natural capital assets impacted | Ecosystem services affected |
|------------------|-----------|--|---------------------------------|---|
| | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| Water pollutants | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Species | Enables production process Water quality |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |
| Solid waste | Pollution | Habitat loss due to overfertilization and toxics contamination | Species Habitats | Enables production process Maintenance of nursery habitats |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Species Habitats | Enables production process Soil quality |



Interface with sensitive areas

Impact management on sites with higher sensitivity levels

Due to their location in areas with higher sensitivity levels, the direct material impacts applicable to the Louças Recife and Castelatto Atibaia sites were assessed once more, aiming to identify management practices for these impacts and to classify them according to the mitigation hierarchy (avoid, minimize, restore, offset).

The existing actions for managing those impacts on these sites are adequate to avoid their occurrence or minimize their impacts.

Interface with sensitive areas

Impact management on sites with higher sensitivity levels – Louças Recife

| Driver | Aspect | Impact | Impact management | Mitigation approach |
|------------------|--|--|--|------------------------|
| Water pollutants | Increases in nutrients, se composition of freshwater Microbiota are sensitive t | Habitat loss due to overfertilization and toxics contamination | Wastewater treated before its discharge on water streams or to external treatment. | Avoid |
| | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Maintenance and cleaning of rainwater drainage systems. Cleaning of industrial area. Containment barriers. | Minimize |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Compliance to legal quality standards for wastewater discharge, as set by environmental agencies. | Avoid |
| | 5 W .: | Habitat loss due to overfertilization and toxics contamination | Maintenance and cleaning of rainwater drainage systems. Cleaning of industrial area. Containment barriers. | Minimize |
| Solid waste | Pollution | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Compliance to legal quality standards for wastewater discharge, as set by environmental agencies. | Avoid |



Interface with sensitive areas

Impact management on sites with higher sensitivity levels – Castelatto Atibaia

| Driver | Aspect | Impact | Impact management | Mitigation approach |
|------------------|-----------|--|--|------------------------|
| Water pollutants | Pollution | Habitat loss due to overfertilization and toxics contamination | Wastewater treated before its discharge on water streams or to external treatment. | Avoid |
| | | Increases in nutrients, sediments and changes in chemical composition of freshwater bodies, decreased species survival. | Maintenance and cleaning of rainwater drainage systems. Cleaning of industrial area. Containment barriers. | Minimize |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Compliance to legal quality standards for wastewater discharge, as set by environmental agencies. | Avoid |
| Solid waste | Pollution | Habitat loss due to overfertilization and toxics contamination | Maintenance and cleaning of rainwater drainage systems. Cleaning of industrial area. Containment barriers. | Minimize |
| | | Microbiota are sensitive to metal pollution. Toxicity of heavy metals displaces exchangeable nutrients from binding sites. | Compliance to legal quality standards for wastewater discharge, as set by environmental agencies. | Avoid |



Dexco

peca portinari Hydra Duratex castelatto ceusa Durafloor