# CHOSE NEV CALEDONIA!

INVESTMENT OPPORTUNITIES IN NEW CALEDONIA **:hoosenewcaledonia**.nc



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# **KEY DEMOGRAPHIC FIGURES**

New Caledonia is one of the largest countries in the South Pacific, with a surface area of **18,576** km<sup>2</sup>, and is France's second largest overseas territory after French Guiana. The country is made up of three provinces: Loyalty Islands, North Province and South Province and its population of **271,407** inhabitants (**14.6** per km<sup>2</sup>) is unevenly distributed across the country. South Province has the largest population and is the most densely populated. It stretches from Poya in the north to Yaté in the south of the main island, Grande Terre. It extends beyond the lagoon to the Isle of Pines. North Province is the most extensive, covering slightly more than half of Grande Terre as well as the Belep Islands. Loyalty Islands Province is the least populated but also the smallest in terms of surface area. It consists of the islands of Ouvéa, Lifou, Tiga and Maré. Customary land covers a total of 503,300 hectares, or 27% of New Caledonia as whole. This land is mainly in the Loyalty Islands Province, where it constitutes almost all of the land, and in North Province, where it represents a quarter of the province's total surface area. **74% of the total population lives in South Province** and 67% in **the Greater Noumea urban area** (Dumbéa, Mont-Dore and Païta). The **under-20s account for 32%** of the population, the **20 - 59 age group for 56%** and the **over 60s, 12%**. **Life expectancy is 80.1** for women and **75.1** for men.



# **POLITICAL AND ECONOMIC DATA**

New Caledonia is a French "sui generis" overseas collectivity with a special status conferred through a process lasting over 20 years, beginning with the Matignon Accords in August 1988, followed by the Noumea Accord of 4th May 1998. In particular, this agreement establishes the gradual transfer of certain powers to New Caledonia from the French State, with the latter retaining sovereignty in matters such as justice, currency, borrowing, anti-money laundering, law and order, and defence. New Caledonia enjoys a broad degree of autonomy from metropolitan France and has what is considered a collegial government, elected by members of Congress, who are themselves from the deliberative assemblies of each of the three provinces (Loyalty Islands Province, North Province and South Province).



# FOREIGN TRADE AND REGIONAL COOPERATION: MANY ADVANTAGES



- Animal and plant health protected status

- Exceptional biodiversity offering numerous development opportunities: in particular, New Caledonia represents France's largest Marine Protected Area, the 4th biggest in the world (1.3 million km2).

- **Good quality of life** thanks to its varied landscape and unique environment, its **cultural diversity** and **lifestyle** conducive to sports and water-based activities.

- A regional market with a potential 10 million people (including the small Pacific island states besides Australia and New Zealand)

# New Caledonia's IMPORTS by country

#### **TOP 5 SUPPLIERS**

- France: **23** %
  Singapore: **14** %
  China: **13** %
- Australia: 11 % USA: 4 % Other: 35 %

#### **TOP 3 IMPORT PRODUCTS**

- Mineral products: 24 %
- Transport equipment: 18 %
- Electrical equipment, devices and machinery: 17 %

#### **REGIONAL COOPERATION**

The Pacific Islands Forum (PIF), Pacific Community (SPCS), Western & Central Pacific Fisheries Commission (WCPFC), and Pacific Islands Development Forum (PIDF)

#### ECONOMIC COOPERATION

With the Melanesian Spearhead Group (MSG), South Pacific Tourism Organisation (SPTO), Pacific Island Countries Trade Agreement (PICTA), and Pacific Agreement on Closer Economic Relations (PACER Plus) - **A unique geographic location** in the heart of the South Pacific, just 1,500 kilometres off Australia's eastern coast and 1,700 km north of New Zealand.

- A rule of law with European standards and a stable currency pegged to the euro.,

- The **highest level of development** of any South Pacific island territory thanks to an **efficient public service** and **modern research units.** 

- High-performance industrial facilities, compliant with European standards.







New Caledonia's EXPORTS by country

#### **TOP 5 SUPPLIERS**

- China: **53** %
- South Korea: 13 %



#### **TOP 3 IMPORT PRODUCTS**

Mineral products: **94** % Seafood: 1 % other: **5** %











ELLE-CALÉD

(A)

# MODERN AND EFFECTIVE INFRASTRUCTURE





#### **NEW CALEDONIA HAS:**

- an international airport, which is one of the largest Pacific island hubs with almost 570,000 passengers in 2019 and handling over 4,000 tonnes of cargo
- a **domestic airfield** providing a regular service to 10 destinations in the country
- a road network covering over 5,400 km
- France's second largest overseas port,
- handling around 5 million tonnes of cargo

- mobile phone coverage and a superfast digital network over the entire country, thanks to undersea cables for both domestic digital communications (Picot 1) and international (Gondwana-1 to Sydney) as well as the rollout of fibre-optic

#### OPPORTUNITIES TO BE SEIZED

The New Caledonian people's high purchasing power

Dependence on imports for many products/services

Introduction of strategic policies contributing to the rapid expansion of key sectors (innovation, digital and renewable energy with natural resources still to be conserved and developed).

- world-class health facilities, including an oncology unit that uses the most advanced treatment techniques, developed in France in partnership with the Curie Institute, as well as a 219-bed ultra-modern private clinic.

New Caledonia has also boosted its healthcare facilities in North Province by investing in the construction of a health hub in Koné, which opened at the end of 2018 in a rapidly expanding area

# **GROWTH SECTORS** Ocean Economy —





# 1.5 million km<sup>2</sup> of exclusive economic zone

New Caledonia has France's second largest Overseas Exclusive Economic Zone, covering about 1.5 million km<sup>2</sup>. The sector, which groups together activities as diverse as harvesting the ocean, ship building and repairs, goods and passenger transport as well as port operations, offers the archipelago new sources of growth. Luxury cruise tourism is one of these areas of potential growth. Through research and innovation, the country is also seeking to initiate the development of new sustainable sectors such as marine biotechnology and/or microalgae at the Microalgae Tecnological Laboratory (LTMA), in Koné (Foué) - call for proposals won by IFREMER and ADECAL (Amical: Aquaculture of Microalgae in New Caledonia) - and ocean energy technology, such as, for example, the Port Laguerre aquaculture facility

# Health\_

Supporting the modernisation of New Caledonia's healthcare system



The construction of several health facilities in New Caledonia has led to a real modernisation of healthcare and a more even balance in the distribution of facilities. The Medipole hospital complex is the site of New Caledonia's first centre for radiotherapy, thanks to the Curie Institute in Paris, which is eager to pass on its oncology expertise. New Caledonia's Institut Pasteur research centre is also on the Medipole site, with around 80 employees. The construction of the Northern health hub is the third large-scale project undertaken by New Caledonia aimed at rebuilding the range of care facilities, following the construction of the Medipole hospital complex and bringing Noumea's private clinics together onto a single site. However, many challenges still remain, notably in the disability and dependency sectors.







# **100%** Public electricity from renewable energy sources by 2025.

New Caledonia's energy transition plan, known as the STENC, adopted by the New Caledonian government in 2016, has set ambitious energy targets, in particular 100% of public electricity supply from renewable energy by 2022. There are numerous ongoing projects with this objective in mind, including a solar power sector that has been particularly dynamic in recent years, even though hydraulic power is still currently the main source of renewable energy. The development of waste management sectors also offers significant potential, notably as part of North and South Provinces' waste prevention and management plans, which set targets to be met in terms of waste prevention, processing and recovery

# Agriculture and Agri-Food Industry

20% of the archipelago's needs are met by domestic production

This sector is dependent on one of the biggest components of New Caledonian capital: land. New Caledonia is the third largest island in the Pacific, with land assets that include tens of thousands of hectares that are not fully developed at present, since only 13% of the surface area is used, whereas the total surface area of land usable for farming purposes represents 185,000 hectares. The country enjoys a special protected health status and a climate that allows great diversity in terms of plant and animal production. Agriculture is an important driving force for development in New Caledonia, since less than 20% of the archipelago's needs are met by local production. The New Caledonian government has therefore committed to aim for food self-sufficiency, while paying particular attention to the transition to integrated and organic farming, reliance on traditional agriculture and the consumption of seasonal produce.

# **Tourism and Hotel Industry**



Setting New Caledonia on the path to more responsible, sustainable tourism

Prior to COVID-19, New Caledonia used to attract over 120,000 overnight visitors a year, a figure that has been rising constantly. In 2019, the archipelago also welcomed around 350,000 cruise passengers, making this country the second largest French cruise port after Marseille. There is a variety of accommodation available, ranging from a stay in a tribal village to five-star hotels from the major international groups (Méridien, Sheraton, Hilton, InterContinental, Marriott, etc.). The archipelago has set itself the goal of steering its development towards a greener, more responsible form of tourism.



## **Digital** -



The digital economy still represents just 2.6% of New Caledonia's GDP vs. the OECD average of 6%



The digital economy still represents only 2.6% of New Caledonia's GDP, compared with the OECD average of 6%. There are many opportunities ready to be seized in the domestic and regional market, such as online selling, cybersecurity and education. New Caledonia has therefore put together its strategic plan for the digital economy, to build a development model with an emphasis on the information and communications technology that is essential to the country's innovation and competitiveness.

# Innovation -





Making innovation a major driver for the country's social and economic development

In 2016, New Caledonia adopted a country-wide innovation strategy, aimed at making innovation a major driver for the country's social and economic development. As part of this action plan, the archipelago recently gained the French Tech label, which singles out ecosystems for start-ups and innovative growth businesses. New Caledonia is part of OCTA Innovation, which promotes growth and economic diversification in overseas countries and territories (OCTs), notably through financing for certain pilot projects. Innovation is also supported by a wide range of mechanisms, including BPI France's Invest for the Future programme known as PIA.

# Industry \_\_\_\_\_





New Caledonia is renowned for its underground resources and mining industry but also offers an abundance of other industrial opportunities and has set itself the objective of diversifying its industry beyond nickel mining operations. The industrial sector offers great development potential, notably for exports, where there are numerous gaps in the market for businesses seeking to produce high value-added goods.





# SOME MAJOR PROJECTS...

## Ocean economy

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NOUMEA

# PORT NUMBO CENTRE OF MARITIME EXCELLENCE



The Autonomous Port of New Caledonia handles every kind of traffic as a port for international trade, fishing port, home port and port of call for cruise liners, an oil port, marina and staging area for nickel ore from the mining centres, etc.

However, the current main ship repair and slipway infrastructure is limited and the development of an infrastructure with the appropriate facilities and expertise to meet the particular requirements of the local and regional professional fleet is longawaited. As is the development of a maritime centre of excellence, bringing together different forms of equipment and expertise. The Port Numbo project includes the **construction of port infrastructure** (careening area, ship dismantling area, hoisting, dry dock, workshops, etc.). **CENTRE OF EXCELLENCE:** The Autonomous Port of New Caledonia (PANC) manages the public maritime domain for all large and small harbours (including Numbo bay) and has expressed its approval of this project. The main area covered by the project is part of New Caledonia's public maritime domain, administered by the PANC. South Province, the owner of the land along the edge of bays, is also a stakeholder in the operation.

E 3,4 MILLIONS Design phase 2020- 2022

**PROJET COST** 

Ocean Economy



# **CRUISE TERMINAL & SUPERYACHT MARINE**



#### **CRUISE TERMINAL**

New Caledonia's closeness to Australia and New Zealand makes it an ideal geographic location for short-cruise tourism. In addition to its pleasant climate and bewitching scenery, its lagoon is a UNESCO World Heritage Site and its hospitality infrastructure is particularly favourable to the development of cruise-related activities. With these undeniable strengths, cruise tourism has grown considerably in New Caledonia in the last ten years: the number of cruise passengers has increased by 162% and the number of liners berthing in New Caledonia has risen from 79 in 2009 to 149 in 2019. The fact that New Caledonia welcomes two world leaders in cruising, the Carnival and Royal Caribbean Celebrity groups, is an indication of the scale of this market potential.

The cruise industry therefore constitutes a real vector for growth in the country. Yet its continued expansion remains contingent on extending and adapting reception capacity, notably at the cruise terminal at the port of Noumea, where development is long-awaited and eagerly anticipated. Currently limited to 265 metres, this new space would allow liners in excess of 350 metres to dock

#### YATCHING

New Caledonia's goal is also to steer its tourist development towards **the premium end**, with the creation of a superyacht marina designed to offer long-term berthing options for large yachts. To achieve this, it must equip itself with a **proper modern**, efficient infrastructure, bringing together services such as a fuelling station, technical workshops, harbour master's office, shops, etc. An operations area has already been identified in Noumea and the Autonomous Port of New Caledonia has just issued a call for bidders.



MILLION

CRUISE PASSENGERS



# SETTING COURSE FOR THE RENAISSANCE OF THE GREAT OCEAN-GOING PIROGUE



"When a pirogue floats along with the wind in its sail, you mustn't stop it, for fear of not finding the wind again." PAUL VAKIÉ, CORE KANAK VALUES, 2013

Curious by nature? Head off in a pirogue to discover well-preserved natural sites in customary marine reserves. Take a trip to come and observe, touch and understand the richness of our environment in a spirit of openness. Enjoy an authentic experience on board traditional Pacific pirogues, discovering and learning to the rhythm of the paddles on a 1½-hour guided tour in the heart of nature. Ecotourism for all the family, any age

Thanks to the cultural revitalisation movement initiated by Hawaii in the 1970s, there is now a lively renaissance in heavenly traditional sailing in Oceania. In many archipelagos, the younger generations are discovering the value of ancestral knowledge and are making the pirogue their own. Our nearest neighbours (Vanuatu, New Zealand and Fiji) have equipped themselves with ocean-going pirogues with the aid of the Okeanos Foundation. Pirogues get islands and cultures moving. New Caledonia and the Islands Province can re-join the oceanic movement and revive the art of travel on board large contemporary pirogues.

The pirogue is a tool for teaching about New Caledonia's Kanak and oceanic maritime history. It is a vehicle for conveying the values of respect for



Pacific Decade for Sustainable Sea Transport (PIDF) ancestral knowledge and the environment. It raises awareness among the people of New Caledonia about the issues involved in managing the Natural Park of the Coral Sea (PNMC) and lets them learn about its riches. Domestic and international tourists are eager for experiences related to the natural and cultural heritage. New Caledonia has developed green tourism focused on its interior regions. The Islands Province is varying the options available by offering a new kind of sea-based activity. The pirogue is playing a part in developing the blue ecotourism sector.

Now viewed as something of a curiosity, alternative, environmentally-friendly modes of sea transport are being developed. Contemporary pirogues play a part in sustainable development and promote an environmentally-friendly method of transport in keeping with the commitments aimed at zero-carbon sea transport (coprah-oil and solar-powered engine). They are designed to transport several tonnes of material. A pirogue is just what's needed to transport local and regional produce between islands.

**PROJECT COST** 

€ 834,000

Ocean Economy

# NOUMÉA





Nouville City of Knowledge (on the Noumea peninsula) will be multi-functional as an innovation centre, with the rollout of the New Caledonian "Ocean Tech" hub, a support structure for innovative businesses and start-ups, as well as a venue for hosting scientists, giving demonstrations and raising awareness among the people of New Caledonia. This project was included in New Caledonia's "innovation region" application". This French government-backed initiative is one of the key actions in the Invest for the Future Programme and has a budget of €450 million, aimed at generating innovative, environmentally-friendly products.

#### The future building will accommodate:

- The Maritime Museum and creation of the Natural History Museum: 4,000 m2
- A conference centre
- Space for travelling exhibitions
- Development facility for innovative businesses and projects (business incubator, accelerator, serviced office facilities, etc.): 870 m2

- Administrative offices for the Public Interest Group (G.I.P) in charge of the PNMC marine park (Natural Park of the Coral Sea)
- A shopping area for promoting local and artisanal products
- Catering outlets: 110 m2



An SAS - simplified joint stock company - will be set up for the project with "The Real Estate Company" as the 100% shareholder, consisting of Promosud, SECAL, the Caisse des Dépôts & Consignations and the BNC (Banque de Nouvelle-Calédonie). Other entities are likely to make joint investments during the legal setting up of the project. The New Caledonian CCI is its future manager.

# MODERNISATION OF THE TJIBAOU CULTURAL CENTRE, A SHOWCASE FOR MELANESIAN CULTURE



The Jean-Marie Tjibaou Cultural Centre opened in May 1998 on an 8-hectare peninsula between Tina and Magenta bay on the outskirts of Noumea, as a meeting point and venue for affirmation of identity and cultural creativity. This 7,000 m<sup>2</sup> multicultural complex designed by Renzo Piano houses a museum and gallery, media library, theatre, research and creative arts hub, as well as a botanical garden and landscaped grounds. It now offers multiple cultural attractions to appeal to a varied audience and is one of the top places to visit for anyone going to New Caledonia. The goal of the Kanak Cultural Development Agency (ADCK), which manages the Tjibaou Cultural Centre, is now to enhance this structure still further by developing innovative services such as a gourmet restaurant, garden centre and digital services. This plan would not only strengthen the Tjibaou Cultural Centre's key role in the cultural and educational life of New Caledonia and the region as a whole but also bolster its national and international reputation.

#### MUSEUM OF NEW CALEDONIA EXTENSION



PROVISIONAL TIMETABLE AND FINANCING TEN-YEAR RESTORATION PHASE Priority work

> PROJECT COST E1.7 MILLION TIMETABLE 2021

The New Caledonian government's goal is to develop, structure and promote its cultural heritage, which has remarkable tourist appeal, as evidenced by the work recently begun on extending and renovating the Museum of New Caledonia, with an overall budget of €16 million, 70% of which is funded by New Caledonia and 30% by the French government. The establishment, which welcomes just under 25,000 visitors a year, will be renamed the MUZ and has a bioclimatic design. It aims to increase its Kanak civilisation collection while also adding works that bear witness to the history of other New Caledonian communities, which will help increase the area's cultural and tourist appeal nationally, regionally and internationally.



# DEVELOPMENT OF RENEWABLE ENERGY PARTICULARLY IN THE METALLURGICAL SECTOR



Despite a considerable leap in renewable energy on the country's energy scene in recent years, New Caledonia is still particularly dependent on fossil fuels, which represented almost 98% of energy consumption in 2019, with the metallurgy sector accounting for 45% of that total. This sector is indeed the heaviest consumer of electricity, coal and hydrocarbons, mainly for its processing operations but also for its mining machinery, transport vehicles and gensets.

Controlling the negative externalities of nickel and especially its CO2 emissions represents a major challenge for metallurgists, who must adapt in particular to meet world demand for nickel that is more respectful of the environment but also more competitive. As part of the energy transition plan (STENC) adopted in 2016 and following the ratification of the Paris Climate Agreement, New Caledonia has set itself the target of a 10% reduction in its greenhouse gas emissions in the mining and metallurgy sector by 2030.

In 2020, therefore, New Caledonia announced a call for expressions of interest, through its New Caledonia Energy agency, to identify economic operators able to offer and operate an electricity

generation and storage network both for public supply and for SLN, to replace the Doniambo fuel oil-fired power station. This call for expressions

of interest should lead to a restricted invitation to tender, where the proposed projects must meet several objectives in order to reconcile economic efficiency (reduction in the price of electricity) with ecological efficiency (the least polluting technology possible), while limiting the risks for New Caledonia.



#### PROVISIONAL TIMETABLE AND FINANCING

2020 - Call for expressions of interest 2020 - 2021 : Restricted invitation to tender 2021 - ... : Completion

# PROMOTING WASTE RECOVERY, REUSE AND RECYCLING: CONSTRUCTION OF AN ECO-HUB



This sustainable development project is in keeping with South Province's guiding principles on economic, environmental and social matters. In fact, South Province's 2018-2022 Provincial Waste Management and Prevention Plan (SPPGD) identifies the development of waste recycling and reuse activities and the setting up of recycling facilities as priority courses of action across its region.

Within this context, South Province has instigated a project for a business area dedicated to privatesector recycling initiatives. This "Eco-hub" project is a tool to lend structure to the business sector and is part of a sustainable development approach, designed to meet the twin objectives of encouraging the emergence of recycling solutions led by private initiatives in support of the "waste, recovery" sector and improving employment prospects for people who have difficulty getting work.

So, the purpose of this eco-hub is to:

- Promote other waste processing methods besides landfill;
- Reuse
- Recycling
- Help businesses in the sector to develop.
- Facilitate the creation of employment for job-seekers.

The project will include businesses, organisations and institutions to encourage waste recycling in a participative spirit, with the pooling of available space, facilities and services. Design studies and layout and development work on the site should start in 2020 and finish in 2023, costing a total of  $\in$ 3.4 million, with 80% of funding provided by the French government through the Fonds Exceptionnels d' Investissement (FEI) special investment funding programme.

CHCX





TIMETABLE 2020 > 2023



LIFOU - ÎLES LOYAUTÉ

# **CORAL GARDENING**



Underwater table-like structure for growing coral colonies - © Copyright

Turning a threat into a real opportunity for our people: coral gardening is a real answer! It consists of a specially reserved area for growing coral colonies from small fragments of coral taken from the natural environment (sustainable sampling). The coral colonies grown on this farm will be used for regeneration purposes on sites damaged by tourist activities. This initial regeneration business will be backed up by activities aimed at tourists from cruise ships (guided tours, actions to raise awareness, etc.)

# In practical terms, this project will involve three infrastructural developments:

• A visitor centre in the Melanesian village (area where cruise passengers disembark): a faré (traditional hut) for selling tickets to the coral farm activities and a display room for raising awareness about this area's extraordinary biodiversity, the vulnerability of coral reefs and the best practices and conduct to observe on the various excursions.

• A land-based structure (building and coral nursery containers), which will be used both as a treatment centre for coral cuttings, reception facility for tourist visits, administrative offices and equipment storage area.

# INVOLVEMENT OF LOCAL PEOPLE AND SUSTAINABILITY:

This project will involve local partners (island residents, fishermen, tour operators, tourist service providers and companies), the customary authorities and development committee (District of Wetr on Lifou), the provincial authorities (Loyalty Islands Province) and scientists (research organisations and innovative companies). Measures and activities already in place will be connected and promoted to develop and sustain the existing economic fabric at Easo and on the entire island of Lifou more broadly. • An underwater structure for growing colonies: the coral farm will make it possible to grow coral cuttings for them to then be transplanted in areas damaged by mass tourism (reef restoration). The nursery should be located about 200 to 300 metres from the shore, at a depth of between 3 and 15 metres.

#### - Observation from a glass-bottom boat;

- **Observation on a snorkelling trip:** by ensuring that snorkelling trips start from boats, cruise passengers will always be out of their depth, never touching the bottom and so will not risk damaging the coral by trampling on them (a not-insignificant cause of damage currently).

This pilot project will be a source of technical innovations, economic spin-off benefits and a model for sustainable tourism in New Caledonia and even for other Pacific, Caribbean and Indian Ocean islands facing the same problems with regard to mass tourism. It will be a fitting part of the drive to protect the environment and restore the reef while allowing the development of Lifou's tourist business and socioeconomic development.

PROJECT COST



It is currently estimated that a total of 4,415 tonnes of bio-waste is generated annually in South Province in the out-of-home food services industry, in particular in mass catering (canteens and company restaurants). The mass catering sector is a major producer of organic waste with significant logistics methods at its disposal. At present, the majority of the waste generated is sent to landfill at waste storage facilities (WSF) and a minority is turned into animal feed or processed by a private contractor to produce compost.

Improving management of bio-waste flow is a key issue in achieving the waste reduction and recovery targets set in South Province's 2018-2022 Provincial Waste Management and Prevention Plan (SPPGD), which includes the target of a 15% reduction in waste tonnage in landfill sites by 2022, and a target of 15% of bio-waste being recovered and developed by 2022 (household waste as well as waste from the catering, food processing and distribution sectors).

South Province wishes to support the structuring of this business sector and recently launched a technical and financial feasibility study, in partnership with ADEME (the Environment and Energy Management Agency), on the setting up of one or more industrial composting units. The intended objective is to encourage the emergence of recovery and development solutions within a short timescale and rally the support of industrial and financial operators to see the commissioning of an initial pilot site. The results of the study are expected by the end of December 2020.

PROJECT COST ENTRE E 830,000 TO E1.3 MILLION

> TIMETABLE 2022 TARGET DATE FOR COMPLETION



# **PROVISION OF LAND TO ENCOURAGE THE SETTING UP OF WASTE RECOVERY BUSINESSES**



**Green Economy** 

NOUMÉA

South Province has an inert waste containment site in the heart of the business and industrial area of northern Noumea (Ducos). This embankment, which was opened in 2006, created a plot in the provincial Maritime Public Domain (DPM) covering a total surface area of 50 hectares.

From the second half of 2021, part of this platform will be made available for use by economic, community and public-sector stakeholders to set up **temporary**, **dismantlable activities**, in particular waste recoveryrelated activities and sundry storage facilities. A call for proposals was launched at the end of 2020. In order to encourage a variety of responses to this call for proposals, there is no predefined limit on plot size on the containment site. The land made available to project leaders can range from a few hundred square metres up to a maximum of 20 hectares.

The site offers strong potential for addressing companies' needs. Indeed, given its location at the end of Koutio-Kueta bay, in the immediate vicinity of Ducos, Noumea's main hub of industrial activity, and just opposite the Medipole hospital complex, this site is particularly well-placed within the Greater Noumea urban area. Moreover, it offers a lot of available space.



FROM 2021

**HOSE** EW CALEDONIA



# SANDALWOOD: A MUCH-COVETED RESOURCE, FROM SANDALWOOD TRADERS TO TOP PERFUME HOUSES... CHC



Sandalwood has been exploited since the 19th century and represents real economic potential for New Caledonia.

According to Market Research Reports, the market is forecast to grow by 9.6% between 2017 and 2022, rising to a value of \$27.49 billion by the end of 2022.

Sandalwood is mainly known for its essential oil, which is much prized in the perfumery, cosmetics, pharmaceutical and aromatherapy sectors. Sandalwood essential oil is a high value-added sector, with turnover three times higher than for domestic wood production.

New Caledonian sandalwood has many advantages:

- preserved genetic wealth,
- specific varieties present in natural surroundings,
- adaptation to local environmental conditions (notably rainfall),
- high value-added product used in the French luxury perfumery sector.

The plantation sites, located mainly in rural areas, allow people to settle there by helping to create jobs in tribal villages inland and on the islands.

The forest operator has land and a skilled, wellqualified team at its disposal together with a network of local service providers, built up over a period of more than ten years. In a drive to boost the sandalwood business, the forest operator is seeking financial partners to enable it to roll out its large-scale plantation programme.

# **KEY FIGURES**

40,000-90,000 XPF/KG

AVERAGE PRICE PER LITRE OF SANDALWOOD OIL

# **25 - 35 YEARS ROTATION**

ESTIMATED PRODUCTION AT A RATE OF 1,300 LITRES OF ESSENTIAL OIL PER HECTARE

#### **10 TONNES**

OF ESSENTIAL OILS EXPORTED IN 2019 (EQUIVALENT TO PROCESSING OVER 300 TONNES OF PROCESSED HEARTWOOD - AVERAGE YIELD OF 3.5%) - WORTH 700 MILLION XPF (I.E. €5.9 MILLION

# **4 DISTILLERIES**

(MARÉ, OUVÉA, BOULOUPARIS, ISLE OF PINS)

**200 HECTARES 2021-2022 1500 HECTARES AFTER 2022** THROUGH FINANCIAL CONTRIBUTIONS FROM PRIVATE INVESTORS

NOUMÉA



# **NOURÉ MARINA COMES ALIVE**



Since 2012, the goal of the MCM company, the public service entity delegated by South Province, has been to regenerate and redevelop the Nakutakoin site. While the  $\in$ 82 million project remains immense and still a current issue, the health crisis has forced the company to revise the phasing of the work. An initial 150-berth marina should see the light of day within a few months.

This major project offers economic benefits as well as advantages for tourism. Ultimately, it will include a marina, including related facilities, infrastructure and businesses, with 740 parking spaces. The inner basin will be able to accommodate 920 units afloat and a dry dock for 200 vessels.

An area of commercial space and technical services will be dedicated to water sports, with the sale of boats, repair and maintenance workshops, the sale of technical accessories for boats, fishing equipment, etc. Lastly, the project includes a luxury hotel, a leisure and entertainment hub with shopping area, bars, restaurants and a fish market for the use of those who make their living from the sea, and a section for superyachts and mega yachts.

#### **INITIAL DEVELOPMENT**

The health crisis has upset the project timetable. The initial section has been split in two in order to allow work to start with immediate effect. "Initially, we're going to offer a layout with 150 berths for vessels afloat and a launch ramp", explains the head of the company. A concrete dock and pontoons will be able to accommodate crafts with a draught of less than 80cm, boats often neglected at Noumea's ports. Prebooking is now open for owners. This first section is due to cost  $\in 2 - 2.5$  million.

Within a year, a third of the 1,100 yacht berths, two ship chandlers (boat shops), some restaurants and one or two of the four hotel towers that are planned will be added to this first phase of work.

#### What are the spin-off benefits?

The task of creating and managing Nouré yacht marina has been entrusted to a dedicated subsidiary of the HCM group, the limited liability company MCM SARL, the public service entity delegated by South Province. Total investment amounts to  $\in$ 82 million, including 32 million for construction of the buildings and 9.4 million in investment in the aparthotel accommodation units.

Ultimately, the creation of the marina will generate annual turnover of up to €35 million and virtually 130 direct jobs with the marina management company and the watersports professionals who will be able to take advantage of the new port facilities, not to mention the spin-off benefits from business activities associated with the marina.

# PROJECT COST



NOUMÉA



# REDEVELOPMENT OF THE FORMER GASTON BOURRET HOSPITAL SITE AND DEVELOPMENT OF NOUMEA'S NORTHERN ENTRANCE



Built in the 1950s on the site of the Constantine fort and former infirmary, Gaston BOURRET hospital received patients from all over New Caledonia up until 2017, when all services moved to the hospital complex known at the Koutio Médipôle. The three-hectare site made up of four urban blocks at the northern entrance to Noumea is of **historic importance, with several listed buildings.** 

Redevelopment of this area, which has been handed back to the New Caledonian government, began in 2017 in the aim of promoting and maximising the value of New Caledonia's historic heritage and rationalising its estate in land. So, there is a plan to renovate and provide services for the existing facilities to create a modern administrative centre for community officials and users.

In addition to serving the rationalisation objective pursued by New Caledonia, **the redevelopment of this site is the cornerstone in the plan to develop the northern entrance to the city of Noumea.** This major gateway into the city, where several public transport networks converge, covers an area of nearly 35 hectares and brings together numerous public and private sector stakeholders who now need to coordinate their plans in a coherent overall strategy. In order to achieve this, the concerted development plan for the area must go through an initial structuring and design phase, which will be carried out in parallel with the site servicing work being done on the former hospital site. In addition to the development work, the implementation phase will be accompanied by the **construction of new buildings** (commercial and residential) **and new facilities** (open spaces, parks, etc.), **providing a strongly innovative, sustainable dimension.** 

NFW CALE



# ARCHITECTURAL TOURIST ATTRACTION



As part of the Redevelopment plan for Noumea's northern entrance, South Province wants to create a tourist attraction for the 130,000 tourists arriving by air and, more specifically, the 340,000 cruise passengers on a short stopover in Noumea. It will consist of an **architectural monument** symbolising "France in miniature in the Pacific" and will also be an expression of the full cultural richness of New Caledonia and Melanesia.

**An architectural competition** will determine the architect for this site, which will cover a surface area of 12,800 m2 and accommodate a variety of commercial activities and entertainment attractions. The proposal is for tourists to pay an admission fee to enter the venue.

An architectural competition will be launched in early 2021. This will be followed by a call for expressions of interest from companies wishing to set up business on this site.











Infrastructure

NOUMÉA





# ROAD INFRASTRUCTURE



In New Caledonia, 15,000-20,000 vehicles use the main RT1 highway between Païta and Nouméa every day. The Tontouta-Païta Nord section requires considerable upgrade work, with the New Caledonian government planning to extend the no. 2 expressway to Tontouta international airport. In addition, maintenance work on the existing expressway on the Kenu In-Païta Nord section is required in compliance with European motorway standards. Besides the objective of improving safety and traffic flow, these projects should also facilitate economic development as well as the development of residential areas in sectors that are currently poorly served by the expressway.

# ΡΑΪΤΑ **Creation of a Païta-Tontouta** dual-carriage expressway

The north of New Caledonia and, more especially, Tontouta international airport are linked to Noumea by the RT1, which goes over the Col de la Pirogue pass. It is the only route to the north and ranks as one of New Caledonia's worst roads for traffic accidents.

The plan consists of extending the existing 4-lane single carriageway with a dual carriageway road from the northern entrance to Païta as far as Tontouta international airport. This project will help cut journey time to the airport, making it safer for users to overtake, and will offer development prospects for the municipalities north of the Greater Noumea area.



VEHICLES A DAY

12,000 20 KM SECTION TO BE **UPGRADED** 





\*depending on option chosen 2021 > 2025

# DUMBÉA - PAÏTA - MONT-DORI



# DUMBÉA - PAÏTA - MONT-DORE

# **ROAD INFRASTRUCTURE**

#### DUMBÉA

Increased safety and smooth traffic flow on the Noumea-Païta expressway



The project consists of carrying out work to increase safety and smooth traffic flow on this section of the RT1, notably at interchanges. Park-and-ride systems and multi-mode hubs should also be created to encourage people to use public transport. Still with a view to safety, there should be pedestrian footbridges and cycle lanes, which would require street lighting. Following a road noise assessment carried out in 2018, noise barriers should also be installed to run alongside certain sections in built-up areas. Lastly, the expressway could be fitted with smart traffic management technology (traffic and parking space sensors) and variable message signs to inform motorists of traffic conditions on their route and possible alternatives.

**17,000** VEHICLES A DAY **20 KM** OF ROAD TO UPGRADE

# PROVISIONAL TIMETABLE AND FINANCING

	Delivery date	Overall cost
Païta Nord interchange	2022	€8.3 million
Nakutakoin interchange	2024	€3.3 million
Installation of noise & intru- sion barriers	2023	€1.7 million
Smart transport system	Gradual delivery as work on sections progresses	€1.2 million
Total		€17 million

PROJECT COST





Infrastructure

# **ROAD INFRASTRUCTURE**



The RP1 main provincial road serving southern New Caledonia currently represents the only route connecting the Greater Noumea area with the region south-east of the municipality of Mont-Dore, the municipality of Yaté and also the Southern metallurgical plant. The long-term sustainability of this service is extremely important to the continuity of business activities. Moreover, the south of the main island, Grande Terre, has just a single road between Boulari and La Coulée, so if the road is closed, there is no alternative for people living to the south of Mont-Dore and Yaté or for the economic activities there. Several development projects have been identified.

#### MONT-DORE Mont-Dore bypass

In order to improve traffic flow between the Greater Noumea area and Mont-Dore's suburban areas, the plan is to develop an alternative solution for road traffic between Boulari and the Roche Liane turning, with other sections of the RP1 having already been the subject of upgrade work.











#### **PROJECT COST**



\*depending on option chosen

TIMETABLE 2017 > 2021

# PRIVATE PROJECTS SEEKING PARTNERS

#### **Ocean Economy**

New Caledonia: future cradle of expertise in oceanographic observation	p28
Green Economy	
Innovative sentinel samplers	p29
Tourisme et hôtellerie	
Skyline Safari: Adventure trail at Noumea Forest Park and Zoo	p30
Innovation	
AGLOSTIC®: Innovation for the benefit of public health	p31
EinWann: A universal adapter kit, devised and designed by a building industry professional for professionals	p32
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<b>TESTEUM:</b> The software crowdtesting solution of tomorrow	p33
Agriculture and Agri-Food Industry	
ENTOCAL: turning food waste into fertiliser and animal feed	p34

# MAKING NEW CALEDONIA THE CRADLE OF EXPERTISE AND EXPERIMENTATION IN OCEANOGRAPHIC OBSERVATION



The objective of ABYSSA is to use innovative technology for extensive and non-intrusive data acquisition to help improve physical, geological, biological, environmental and energy-related knowledge of deep-sea environments.

ABYSSA SAS, a deep-sea exploration company, is setting up its New Caledonian subsidiary, ABYSSA NOUVELLE CALEDONIE, which will acquire a permanent fleet of autonomous underwater drones.

This project is part of the "Territoires d'Innovation" (Innovation Regions) scheme under which New Caledonia won government funding as part of the PIA3 Invest for the Future Programme.

ABYSSA is planning an initial exploration campaign in the Pacific Ocean in early 2022, with an autonomous vehicle capable of diving to a depth of 6,000m.

Having raised €2.5 million (€1.1 million in equity from private investors plus over €1.4 million through a grant from the Nouvelle Aquitaine region, BPI France funding, the European Investment Fund and a government-backed Ioan), ABYSSA's goal now is to raise more funds in 2021, involving its New Caledonian subsidiary.

This fund-raising will take place with existing partners of ABYSSA, partners already with a presence in New Caledonia and parties interested in the economic, scientific and environmental potential stemming from the work carried out by ABYSSA and its deep-sea drones.



CHOOSE NEW CALEDONIA

## E14.5 MILLION TOTAL PROJECT COST E2.5 MILLION PHASE 1 (2021) E3.5 MILLION PHASE 2 (2022) E3 MILLION PHASE 3 (2023) E5.5 MILLION FROM 2024

TIMETABLE 2021 > 2024

NOUMÉA



# INNOVATIVE SENTINEL SAMPLERS FOR MONITORING NATURAL WATER QUALITY IN-SITU: THOE-LITE & RÉMORAS



AEL/LEA (Analytical Environmental Laboratory) is a specialist laboratory with 10 years' experience of offering a full range of environmental assessments and analyses.

Ordinarily, contaminant analysis is carried out using water sampling techniques that demand restrictive conditions. The main stumbling block with these techniques is the cost of the logistics required to deploy them. In 2015, AEL/LEA sought to reduce these costs by optimising its processes and systematising analysis quality.

With this optimisation goal in mind, the AEL/LEA SARL limited liability company therefore developed THOË: a small, patented robot that can submerge to a depth of 3,000m and has a 12-month power supply. THOË uses embedded "passive sampling" technology to analyse dissolved metals and organic compounds in seawater and freshwater.

THOË is now being marketed domestically and internationally.

Research carried out in 2020 shows that THOË technology could be used in wider areas of application. AEL/LEA therefore aims to develop and market two new products as range extensions:

- Firstly, a simpler model (THOË-Lite): cheaper and also suitable for freshwater (rivers and lakes) and,
- Secondly, a more sophisticated model for exploring vast ocean expanses (RéMORAS)

This project was selected for the Territoires d'Innovation programme.

The targeted areas of application include:

- Monitoring of freshwater quality in rivers and lakes;
- Quality control of coastal water, in the face of current climate issues;
- Monitoring of oilfields and probable deep-sea mining concessions;
- Control of marine protected areas (Australian Great Barrier Reef, PNMC marine park, etc.);
- International scientific programmes concerning the transport/transfer of chemical compounds;

Target markets include:

- University and research centres and organisations (continental waters, coastal waters and deep-sea environments);
- Research consultancies (experts in the physical chemistry of water);
- Mining and industrial companies, to monitor the impact of their activities (influence on land and marine environments);
- Public authorities, in regard to the conservation of natural areas or coastal development projects.

#### **PROJECT CONTRIBUTORS:**

- SARL TECHNICAP www.technicap.com
- DGT-Research www.dgtresearch.com

- INSTITUT DE RECHERCHE ET DÉVELOPPEMENT DE TOULOUSE

- CAISSE DES DÉPÔTS ET CONSIGNATIONS

PROJECT COST **€535,000** DESIGN AND PRODUCTION OF THOË-LITE AND RÉMORAS ROBOTS

> TIMETABLE MID-2022

# NOUMÉA

# SKYLINE SAFARI: ADVENTURE TRAIL AT NOUMEA FOREST PARK AND ZOO



Ziplining is regarded as an "eco-friendly" activity that is very popular with tourists, cruise passengers and locals. This activity provides an unforgettable experience, especially in a unique environment like New Caledonia's, with its UNESCO World Heritage-listed lagoon.



"Skyline Zipline" is a leading Canadian zip line company with 25 years' experience and an established presence in 22 countries.

Based on the successful example of the existing project at San Diego Zoo, **the ideal location** for a **New Caledonian Skyline Zipline would be at Noumea Forest Park and Zoo.** Synergy with the Forest Park would add a boost to the park experience, while respecting its flora and fauna.

A trail consisting of 3 zip lines will liven up the visit to the animals, trees, plants and lakes in the Park. A fourth, longer and faster zip line (Mega Zip) will be in the hiking section of the park, for those seeking even bigger thrills. The final tower of the Skyline Safari will be a "multi-activity" tower, including a hydraulic bungee activity, a short 45-degree zip line and a climbing wall. Visitors can choose which of these additional activities they do as part of the Zipline Safari Tour.

The plan is also for the fun, educational "canopy tour" to let visitors to see and find out more about the treetops, with their richly biodiverse micro-climate, greatly valued by scientists for the potential they offer for new discoveries, both in terms of research and environmental protection.

The ecological impact on the park would be minimal, with the zip lines passing silently over the park and the towers at the start and finish being made of wood, designed to blend in with the natural surroundings and trees.







The WHO currently estimates that 3.9 billion people, i.e. over half the world population is exposed to the health risks associated with viruses spread by the Aedes or yellow fever mosquito, including Dengue, Zika and Chikungunya fever.

**AGLOSTIC**<sup>®</sup>:

**OF PUBLIC HEALTH** 

The New Caledonian company, AEDES SYSTEM, has designed the AGLOSTIC® system for combating the Aedes mosquito by preventing the larvae from developing. In urban environments, two out of three mosquitoes hatch in gutters, manholes and other rainwater conveyances. There were no solutions on the market to prevent mosquitoes from nesting in these places where stagnant water accumulates. AGLOSTIC® is an ecological filter made from recycled tyres, which lets water drain away, stops the mosquitoes from nesting in indestructible receptacles and prevents these from getting blocked up with green waste. The entomological efficacy of AGLOSTIC® has been validated by the Institut Pasteur. The product has been patented in 13 countries.

AGLOSTIC® therefore has worldwide potential. By cross-referencing mosquito population size with countries' economic ability to equip themselves, AEDES SYSTEM has identified some priority targets, including the European Union and overseas countries and territories (OCT), Brazil, the USA, Singapore, Australia and China. The business model developed by AEDES SYSTEM is based on a brand operation by the company itself in New Caledonia and the creation of an international network of licensees.

International licensing agreements have been signed with France, Switzerland, Réunion, Mayotte, Martinique, Guadeloupe and French Polynesia. AEDES SYSTEM has been carrying out a 4-year programme with the Michelin Corporate Foundation since 2018 to roll out AGLOSTIC® in Thailand.

**AEDES SYSTEM** is seeking to extend its network of licensees throughout the world.

The AEDES SYSTEM company is also aiming to expand its production facility to meet growing demand on the New Caledonian market and in the South Pacific region.

AEDES SYSTEM is a 2020 Tech4Islands Awards winner.

# **PROJECT COST** €500,000

TIMETABLE **24 MONTHS FROM CONFIRMATION OF FINANCING** 



# EINWANN: A UNIVERSAL ADAPTER KIT, DEVISED AND DESIGNED BY A BUILDING INDUSTRY PROFESSIONAL FOR PROFESSIONALS CHOOSE



Building industry professionals face the daily problem of a host of batteries and chargers for portable electric tools with different voltage requirements and no compatibility between brands.

Lian Technics has developed the concept of a universal battery adapter for portable electric tools. The research and development phases (patent, market research, technical feasibility, prototype, etc.) have been completed. Lian Technics is now seeking partners to provide support in putting its products into production.

The universal adapter kit consists of three components in its simplified version and four in the multi-voltage version. Ultimately, this version will be able to supply power to all portable electric devices using the same type of power source of between 12 and 36 volts.

This kit will have a positive environmental impact as the life of NiCad battery-operated tools will be extended and consumption of lithium batteries and chargers will be significantly reduced. An initial test phase is planned for the New Caledonian market in 6 months' time. Market research has shown that the global market is worth \$34 billion and that initial action should focus on China and France. Given its favourable geographic location in the South Pacific region, Lian Technics also plans on taking a rapid interest in the Australian and New Zealand markets.

PROJECT COST PHASE 1: **€100,500** NEW CALEDONIAN MARKET

TIMETABLE NEW CALEDONIAN TEST MARKET PHASE PLANNED WITHIN 6 MONTHS

VOUMÉA



# TESTEUM: THE SOFTWARE CROWDTESTING SOLUTION OF TOMORROW

Increase the quality of your website with crowdtesting

Testeum connects an online community of testers with your website through its innovative platform

The Testeum software crowdtesting platform is a winner of the New Caledonian government's 2020 TechInnov call for projects. It connects designers of web and mobile apps with people who want to test apps to boost their income.

In the highly competitive digital products market, where quality makes all the difference, tests often take too long and are expensive for app and website designers, while offering little remuneration for testers. TESTEUM has perfected a method of automating the most expensive activities, maximising the potential of crowdtesting, increasing its speed, reducing its cost and offering testers fair remuneration.

The innovation is based on:

- The use of Ethereum Blockchain technology, allowing client/tester interaction to be automated in a secure and transparent way.
- Use of Data Science.
- Organised, direct contact between clients and testers.

Who are the clients? Any company that has created a web or mobile app and wants to check it is working properly with real users.

Who are the testers? Anyone who wants to earn some extra income and has internet access and an IT device.

Benefits of the TESTEUM software:

- Much faster than a standard test (a few hours instead of entire weeks),
- Extremely reliable,
- Very economical,
- Ethical.

During this time of global crisis, Testeum offers extra income, available to all, no matter where, without any change in working status, while also generating value locally.





# ENTOCAL: TURNING FOOD WASTE INTO FERTILISER AND ANIMAL FEED



The Entocal company is going to use organic waste of plant and animal origin as the raw material to generate high value-added products:

• a local, sustainable and ecological source of animal feed,

• a local soil conditioner or green manure for use as plant food or to fertilise the land.

There is considerable potential, given that only 2,000 insects are consumed worldwide, whereas 80% of them are edible and that 90 million tonnes of food waste are produced in Europe every year, half of which is reused, with only 5,000 tonnes for insect feed.

Insects contain 55%-75% protein, and can represent up to 70% of certain livestock's dietary requirements.

The growth in global demand for animal feed, notably for chicken, other poultry and fish, is putting pressure on agricultural raw material prices.

The Entocal process provides a sustainable solution to these problems, thanks to Black Soldier Fly larvae, which turn organic waste into complex nutrients.

The larvae are fed mainly on food waste and are then harvested and dried. These larvae are used as feed in aquaculture, poultry and livestock farming and for household pets, as a replacement for products with a negative environmental impact, such as fish meal and soybean meal. Given the global context and local prospects, **domestic** production is forecast to reach 5,000 tonnes a year. An initial production target of one million flies has been set for mid-2029.

Tests will be carried out for manufacturing oil and meal with a livestock of 5 million flies produced in 4 glasshouses.

This process also produces a natural, organic green manure or soil conditioner, containing about 10% nitrogen, phosphorus and potassium (NPK).

The market for natural organic fertilisers is expanding rapidly, as a substitute for chemical fertilisers and soil conditioning products, to support organic, sustainable practices in agriculture, horticulture and gardening.

A pilot test site, supported by South Province, was set up in May 2020 to test the project's technical feasibility and local outlets.



TIMETABLE 2021: LAUNCH ON THE NEW CALEDONIAN MARKET



# **PROJECTS SUPPORTED BY**







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