





# Book of experiences

20-year anniversary: 50 experiences!

Get around the cycle...



- **#** 1
- AUCHAN PACKAGING OPTIMIZATION
- Place of intervention : Lille, France
- Date of intervention: 2003–2004
- Project sector : Retail
- Project owner / partner : AUCHAN
- Source of funding : AUCHAN
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Creation of a new department

- Description of the project: Packaging system optimization towards cost reduction on 5 targeted references
- Population possibly impacted by the project: 300 000 customers per year
- Achieved tasks :
  - •Targeting of references which packaging system is interesting to optimize
  - •Complete studies dealing with design, organization, gathering, palletization and packaging combination
  - •Evaluation of possible savings en terms of economic and environmental costs



- **# 2**
- PLASTIC RECYCLING FEASIBILITY IN TOGO
- Place of intervention : Lomé, Togo
- Date of intervention: 2004
- Project sector : NGO
- Project owner / partner : CDT
- Source of funding : OIF
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Creation of a recycling workshop

- Description of the project : Feasibility and formulation of a project to support household waste sanitation in Lomé
- Population possibly impacted by the project: 2 million inhabitants
- Achieved tasks :
  - Introducing a separation at source in the existing collection system
  - Searching for local possibilities of supply and dimensioning



- **#** 3
- PROCARTON ECO-DESIGN CONTEST
- Place of intervention : Paris, France
- Date of intervention: 2004
- Project sector : Packaging
- Project owner / partner : OmegaPack
- Source of funding : CNE, ADEME
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Creation of new packaging design

- Description of the project :Taking part to the eco-design contest organized by Pro Carton France
- Population possibly impacted by the project : ?
- Achieved tasks :
  - Design of a primary packaging showing ecological and ergonomical advantages for the cereal market
  - •Carrying out illustrated plates for the contest presentation
  - •Drafting and deposit of an application for a patent of invention on certain technical aspects



- **# 4**
- WASTE RECYCLING IN MAURITANIA
- Place of intervention : Nouakchott, Mauritania
- Date of intervention: 2004
- Project sector : Solid waste management
- Project owner / partner : GRET
- Source of funding : GRET
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Funding of a plastic recycling project by the EU

- Description of the project: Design of a program to support household plastic waste recycling in Nouakchott
- Population possibly impacted by the project: 1 million inhabitants
- Achieved tasks :
  - Characterization of household plastic waste from a zoning based on housing
- Enquiries in order to take into account the level of local development
- Organization of a collection system by payed bringing
  - Audit of a plastic waste recycling project by rotomolding technology in Senegal
  - Identification of local ways, both existing and to be set by a support to initiative



- **#** 5
- PLASTIC RECYCLING FEASIBILITY
- Place of intervention : Huê, Viêt-Nam
- Date of intervention: 2004
- Project sector : Solid waste management
- Project owner / partner : Company of Environment and Urban Works
- Source of funding : French Regional Council
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : New projects about plastic recycling

- Description of the project: Feasibility of a recycling project into construction products of household plastic waste in Huê
  - Population possibly impacted by the project: 400 000 inhabitants
- Achieved tasks :
  - •Identification of a technology able to manufacture molded products from a blending of plastic waste
  - Characterization of household plastic waste of Huê and taking into account the implemented collection system
  - Precise definition of technical and economic conditions to implement 4 ways to manufacture usable products
  - Evaluation of product prices, investment to achieve and technical nature to incorporate



- **# 6**
- "WASTE -10%" FOR AUCHAN
- Place of intervention : Noyelles-Godault, France
- Date of intervention: 2004–2006
- Project sector : Solid waste management
- Project owner / partner : AUCHAN
- Source of funding : ADEME
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date: Larger orientation of packaging waste towards recycling

- Description of the project :Taking part in the operation « Waste 10% » organized by ADEME on the major site AUCHAN in Noyelles-Godault
- Population possibly impacted by the project: 600 000 customers
- Achieved tasks :
  - •Implementing an action plan towards the valorization of the packaging waste at the levels of shopping centre and gallery
  - Supporting the implementation of a selective collection system in the new gallery
  - Sensitization of the managing people to the quality of waste sorting
  - Advising for the rationalization of solid waste management on the whole site



- **# 7**
- PLASTICS RECYCLING IN HAITI

Place of intervention : Pétionville, Haiti

Date of intervention: 2005

Project sector : Recycling industry

Project owner / partner : FHE

Source of funding : USAID

Role in the project : Recycling expert

Progress to date : Over

Impact to date : Demonstrated technical feasibility of plastic recycling in Haiti

Description of the project: Specification of a recycling project for plastic waste in poor neighborhoods of Pétionville

Population possibly impacted by the project: 400 000 inhabitants

- Achieved tasks:
  - •Organization of the selective collection system within the community organization
  - •Technical and economical design of the treatment to produce raw materials
  - Market study for the sales of secondary raw materials



- **# 8**
- WASTE RECYCLING IN HONDURAS
- Place of intervention : Tegucigalpa, Honduras
- Date of intervention: 2005
- Project sector : Solid waste management
- Project owner / partner : CARE
- Source of funding : ILO
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Additional means to avoid infant labor through recycling

- Description of the project: Mid-term evaluation of a project aimed at eradicating the infant labor through recycling in Tegucigalpa
- Population possibly impacted by the project: 1 200 000 inhabitants
- Achieved tasks :
  - Inventory of local solid waste management with a focus on recycling, especially at the dumpsite level
  - Evaluation of efficiency with regard to the principal objective to eradicate the infant labor and the secondary objectives to improve and integrate the solid waste valorization supply chains



#### PLASTICS RECYCLING IN MAURITANIA

Place of intervention : Nouakchott, Mauritania

Date of intervention: 2006–2007

Project sector : Plastic industry

Project owner / partner : GRET

Source of funding : EU

Role in the project : Recycling expert

Progress to date : Over

Impact to date : Development of private initiatives to recycle plastics

Description of the project: Technical assistance to a program of plastic waste recycling on the territories of Toujounine and Dar Naïm in the Nouakchott metropolis

Population possibly impacted by the project: 200 000 inhabitants

- •Actualization and refining of the economical data of the project
- •Revising the collection and treatment modes of the plastic waste
- Information of the potential des entrepreneurs on the various valorization possibilities
- •Setting of a system of followingevaluation of the project according to the EU framework



- **#** 10
- PLASTICS RECYCLING IN BURKINA FASO
- Place of intervention : Koudougou, Burkina Faso
- Date of intervention: 2006
- Project sector : Plastic industry
- Project owner / partner : ARP
- Source of funding : ADEME
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date: Improvement of technical features of plastic recycling process

- Description of the project: Technical assistance to a recycling project of plastic waste into molded products in Koudougou
- Population possibly impacted by the project : 200 000 inhabitants
- Achieved tasks :
  - •Characterization and projection of the local disponibility of interesting plastic waste
  - Technical and economical evaluation of collection possibilities
  - Searching for heat production alternative possibilities to wood burning
  - Audit and review of the manufacturing methods of molded products with focus on security



- **#11**
- MANAGEMENT OF PLASTICS IN NIGER
- Place of intervention : Niamey, Niger
- Date of intervention: 2006
- Project sector : Policy
- Project owner / partner : Ministry of Environment / BURGEAP
- Source of funding : EU
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Adoption of a national action plan towards plastic waste

- Description of the project: Elaboration of an operation national strategy of plastic waste management in Niger to the benefit of the Ministère de l'Hydraulique, de l'Environnement et de la Lutte Contre la Désertification
- Population possibly impacted by the project: 23 million inhabitants
- Achieved tasks:
  - Setting of a methodology of quantification of plastic waste and evaluation of main actors
  - •Achieving of a complete diagnostic and projection towards 2015 of the plastic waste management at the national scale
  - •Determination of the strategy principles with the participation of institutional actors
  - Definition of an action plan allowing the implementing of the national strategy with respect to the principles
  - •Organization of a validation workshop for the national strategy and its action plan in the presence of main actors



- **#** 12
- PLASTICS RECYCLING IN DOMINICAN REPUBLIC
- Place of intervention : Santo Domingo, Dominican Republic
- Date of intervention: 2006
- Project sector : Waste management
- Project owner /partner : Municipality of Santo Domingo Norte / IDDI
- Source of funding : AFD
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Design of a new local project



- Achieved tasks :
  - Integration of a selective collection from an existing collection system
  - Local market study for the flowing of secondary raw materials to the plastic industry



WASTE MANAGEMENT PLAN IN HAITI

Place of intervention : Cap-Haitien, Haiti

Date of intervention: 2006–2007

Project sector : Waste management

Project owner / partner : City of Cap-Haïtien / HRDF

Source of funding : City of Suresnes

Role in the project : Waste management expert

Progress to date : Over

Impact to date : Design of a new local project

Description of the project: Prefeasability of an integrated master plan of solid waste management in Cap Haitien

Population possibly impacted by the project: 300 000 inhabitants

- Inventory of local practice and monitoring of participation of various stakeholders
- •Evaluation of possible sites to implement a controlled landfill
- •Design of a technical and administrative framework of management integrating composting and recycling
- •Evaluation of the expected social and economical impacts of the project
- ·Assessment of the greenhouse gaz emission impacts of the project to get «



- **# 14**
- WASTE TECHNOLOGY EXPORT IN CHILE
- Place of intervention : Santiago, Chile
- Date of intervention : 2009
- Project sector : Waste management
- Project owner / partner : MENART / CD2E
- Source of funding : UBIFRANCE
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Opening of new markets for composting technologies

Description of the project: Support for export in Chile to the company MENART along with UBIFRANCE

Population possibly impacted by the project: 17 millions inhabitants

- Achieved tasks:
  - •Preparation for the exhibition Ambiental 2009 held in Santiago
  - Organization and assistance to business meetings
  - •Follow up of the identified opportunities



- **#** 15
- PACKAGING ECODESIGN IN KENYA
- Place of intervention : Nairobi, Kenya
- Date of intervention: 2010
- Project sector : Food and drug industry
- Project owner / partner : Kenya NCPC
- Source of funding : UNIDO
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Sensitization about packaging ecodesign

- Description of the project:
  Identification of possibilities to improve efficiency through packaging in the Kenyan industry
  - Population possibly impacted by the project: 51 million inhabitants
- Achieved tasks :
  - Awareness rising of potentially interested companies through the National Cleaner Production Centre
  - •Diagnosis of packaging systems and action plan proposals to improve the industrial and environemental efficiency
  - •Training of a local partner to carry out a part of the optimization process of packaging systems



- **#** 16
- DISTRIBUTION PACKAGING ECODESIGN IN FRANCE
- Place of intervention : Roncq, France
- Date of intervention: 2010
- Project sector : Cloth industry
- Project owner / partner : IDS / EVEA
- Source of funding : ADEME
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date: Promotion of ecodesign interest in distribution packaging

- Description of the project:
  Environmental assessment and ecodesign of a round arch of shoes with
  EVEA
- Population possibly impacted by the project: 300 000 customers per year
- Achieved tasks :

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- •Collection of data related to life cycles of the products in France and China
- •Contribution to the comparison of the environmental profiles of 5 round arches
- Contribution to the research of ecodesign improvements for the round arch and its packaging



- **#17**
- WASTE MANAGEMENT IN CHILE
- Place of intervention : Antofagasta, Chile
- Date of intervention: 2010
- Project sector : Waste management
- Project owner / partner : City of Antofagasta / BURGEAP
- Source of funding : French government
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Development of the conditions to set a SWM master plan

- Description of the project: Setting of a master plan of solid waste integrated management with demonstration of appropriate technologies in the region of Antofagasta

  Population possibly impacted by the
  - Achieved tasks :
    - •Coordination with the BURGEAP correspondent in Chile

project: 600 000 inhabitants

- Involvement of French companies likely to supply appropriate equipments
- •Writing of the full folder for funding claim towards the French Ministry



MANAGEMENT OF INDUSTRIAL RECYCLING UNIT IN FRANCE

Place of intervention : Noyon, France

Date of intervention: 2010-2011

Project sector : Recycling industry

Project owner / partner : ARF

Source of funding : ARF

Role in the project : Recycling expert

Progress to date : Over

Impact to date : Restart of the industrial unit



- Achieved tasks:
  - ·Industrial diagnosis of the current site
  - •Reinitiating of the business relationships
  - •Support for the strategic orientation of the further development
  - Projection of the implementation on a new site



- **#** 19
- WASTE RECYCLING IN COSTA RICA
- Place of intervention : San José, Costa Rica
- Date of intervention: 2011
- Project sector : Recycling industry
- Project owner / partner : Ministry of industry/ ACEPESA
- Source of funding : ACEPESA
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Support for recycling projects

Description of the project: Overview of the recycling possibilities in San José
Population possibly impacted by the project: 5 million inhabitants

- Diagnosis of current SWM and recycling projects
- Participation to local community workshops
- •Investigation of recycling possibilities in the local industry



- **# 20**
- PACKAGING ECO-DESIGN IN ARGENTINA
- Place of intervention : Buenos Aires, Argentina
- Date of intervention: 2011
- Project sector : Food industry
- Project owner / partner : AL-Invest
- Source of funding : EU
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Knowledge improvement at national scale

Description of the project: Sensitization of national food industry about packaging eco-design at the occasion of SIAL America

Population possibly impacted by the project: 41 million inhabitants

- Achieved tasks:
  - Presentation in front of a panel from Union Indutrial Argentina (UIA)
  - Meeting exhibitor of food industry at SIAL America 2011



- **# 21**
- SOLID WASTE PREVENTION IN FRANCE
- Place of intervention : Le Quesnoy, France
- Date of intervention: 2011-2012
- Project sector : Recycling industry
- Project owner / partner : Community of Quercitain
- Source of funding : ADEME
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Achievement of a solid waste reduction of 7%



- Achieved tasks:
  - •Full diagnosis on the basis of current management, possible synergies and potential actors
  - •Concerted choice of actions in accordance to strengths and weaknesses, opportunities and threats
  - Presentation of each action according to its feasibility
  - •Organization of action plan under the form of a scheduled, budgeted and easy-to-evaluate program



- **# 22**
- WASTE MANAGEMENT PLAN IN RWANDA
- Place of intervention : Kigali, Rwanda
- Date of intervention: 2012
- Project sector : Waste management
- Project owner / partner : City of Kigali / BURGEAP
- Source of funding : CTB
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Adoption of a solid waste management master plan

- Description of the project: Waste management strategic plan of the City of Kigali
- Population possibly impacted by the project: 900 000 inhabitants
- Achieved tasks:
  - •Situation analysis on the current system, the legal and institutional framework
  - •Definition of modalities of minimization, collection and treatment inducing an improvement of waste management through a 10-year program
  - Drafting of a strategic plan document
  - Presentation of the strategic plan during an endorsement workshop organized by the City of Kigali



- **# 23**
- RECYCLING EVALUATION AND PLAN IN TOGO
- Place of intervention : Lomé, Togo
- Date of intervention: 2013
- Project sector : Recycling organization
- Project owner / partner : City of Lomé / ANTFA
- Source of funding : AFD
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Improvement of the collection and recycling strategy

- Description of the project: Assessment of the collection system and plan to formalize the recycling of solid waste in the City of Lomé
- Population possibly impacted by the project: 1 million inhabitants
- Achieved tasks :
  - Inventory of the collection system of household waste based on field enquiries
  - •Evaluation of the reorganization induced by the PEUL program under criteria of relevance, effectiveness, efficiency and durability
  - •Recommendations to improve and extend the collection system to the Grand Lomé
  - Diagnosis of household waste reuse, recovery and recycling practice
  - Design of an action plan to implement



- **# 24**
- WASTE MANAGEMENT PLAN IN HAITI
- Place of intervention : Cap-Haitien, Haiti
- Date of intervention: 2013–2015
- Project sector : Waste management
- Project owner / partner : City of Cap-Haitien
- Source of funding : AFD
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Setting of an operational plan for the city and its surroundings

- Description of the project: Technical expertise for the solid waste management plan of the city of Cap-Haïtien
- Population possibly impacted by the project: 500 000 inhabitants
- Achieved tasks :
  - •Elaboration of a strategic plan of integrated solid waste management including the master plan
  - Design of an action plan including the recruitment of workforce
  - Development of a communication plan to help the launching of new collection system
  - Localization and design of transfer stations all over the municipal territory
  - Identification of waste valorization opportunities by composting and recycling



- **# 25**
- WASTE MANAGEMENT ASSISTANCE IN TOGO
- Place of intervention : Lomé, Togo
- Date of intervention: 2014–2016
- Project sector : Waste management
- Project owner / partner : Greater Lomé / EGIS
- Source of funding : AFD
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date: Improvement of the collection services and setting of a new sanitary landfill

- Description of the project: Technical assistance to the implementation of the waste management system for the City of Lomé
  - Population possibly impacted by the project: 2,5 million inhabitants

- •Elaboration and implementation of a plan of solid waste management for the Greater Lomé
- Selection and recruitment of new operators for collection
- •Follow-up of implementation of modifications on transfer stations as well as the integration of recycled waste gathering points
- •Implementation of the communication to support the re-launching of the collection system
- ·Coordination for the preparation of the



- **# 26**
- WASTE MANAGEMENT PLAN IN KENYA
- Place of intervention : Nairobi, Kenya
- Date of intervention: 2017
- Project sector : Waste management
- Project owner / partner : Nairobi City Council / ANTEA
- Source of funding : World Bank
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Achievement of a solid waste management business plan

- Description of the project: Design of a solid waste management framework for Kibera slum in Nairobi
- Population possibly impacted by the project: 200 000 inhabitants
- Achieved tasks :
  - •Situation analysis and diagnosis including the inventory of the active NGOs / CBOs and the setting of a local solid waste committee
  - •Feasibility study of collection system and composting treatment
  - Selection and operationalization of the preferred scheme
  - •Elaboration of the full business plan for the preferred scheme
  - •Detailed design, preparation of the bid documents and cost estimates for the needed infrastructure

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WASTE MANAGEMENT ASSISTANCE IN FRANCE

Place of intervention : St Nazaire, France

Date of intervention: 2017

Project sector : Waste management

Project owner / partner : CARENE, SMCNA / ECOGEOS

Source of funding : ADEME

Role in the project : Recycling expert

Progress to date : Over

Impact to date : Adaptation of recycling to the extended sorting instructions

64	Papiers graphiques 2.05	3,3%	1,4%	3,1%	0,5%	9,5%	1,76	0,74	1,61	0,2
65	GDM 1.02	5,1%	2,7%	5,8%	0,4%	19,5%	2,66	1,41	3,05	0,2
66	ELA 5.03 aplatis	1,6%	0,3%	0,7%	0,5%	2,8%	0,83	0,18	0,39	0,2
67	ELA 5.03 non aplatis	0,2%	0,2%	0,3%	0,0%	1,2%	0,13	0,08	0,17	0,0
68	Plastiques	7,0%	1,4%	3,1%	2,9%	15,4%	3,65	0,74	1,61	1,5
69	PET clair Bouteilles et flacons	3,3%	0,7%	1,5%	1,6%	7,4%	1,72	0,35	0,76	0,8
70	PET foncé Bouteilles et flacons	2,0%	0,4%	0,9%	0,7%	4,0%	1,05	0,23	0,49	
71	PEHD Bouteilles et flacons	1,7%	0,5%	1,0%	0,3%	4,0%	0,89	0,25	0,55	0,1
12	Consignes de tri élargies	4,0%	1,0%	2,2%	1,7%	9,3%	2,08	0,52	1,13	0,8
73	Déchets valorisables	2,4%	0,5%	1,0%	1,2%	4,4%	1,26	0,24	0,52	0,6
74	Plastiques	2,4%	0,5%	1,0%	1,2%	4,4%	1,26	0,24	0,52	0,6
75	PET clair Pots et barquettes	0,5%	0,2%	0,4%	0,1%	1,6%	0,28	0,09	0,19	0,0
76	PET foncé Pots et Barquette	0,2%	0,1%	0,2%	0,0%	0,9%	0,10	0,05	0,11	0,0
77	PEHD Pots et barquettes	0,1%	0,1%	0,1%	0,0%	0,5%	0,05	0,03	0,07	0,0
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Population possibly impacted by the project : 300 000 inhabitants

- ·Analysis of characterization results in flows of separated waste, main waste and brought waste for various backgrounds
- •Analysis of recycling opportunities for the new flows of materials from the extended sorting instructions especially for plastic waste (PP, PS, BDPE) and subsequent recommendations



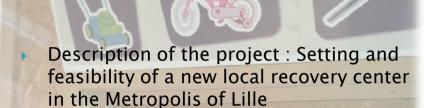
- **# 28**
- RECYCLING PLAN IN INDIAN OCEAN
- Place of intervention : Port Louis, Mauritius
- Date of intervention: 2017
- Project sector : Recycling organization
- Project owner / partner : IOC / ANTEA
- Source of funding : AFD
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Adaptation of action plan and communication campaign



- Description of the project: Elaboration and planning of regional recycling supply chain for non-household waste in the IOC
- Population possibly impacted by the project : 28 millions inhabitants
- Achieved tasks:
  - •Synthetic presentation of information collected during a diagnostic study about the technical and ruling aspects
  - Definition and evaluation of the possible regional supply chains in the short-term
  - •Elaboration of an action plan including an institutional framework and a communication plan



- **# 29**
- RECOVERY CENTER IN FRANCE
- Place of intervention : Lille, France
- Date of intervention: 2018
- Project sector : Recovery organization
- Project owner / partner : Entraide et Partage
- Source of funding : OmegaPack
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Preparation of a future local recovery project



Population possibly impacted by the project: 1 million inhabitants

Atelier Mécanique

- Achieved tasks :
  - Visit of several patterns of recovery centers on the national territory
  - Looking for orientations about positioning, financing and settling
  - Opportunity study to sourcing of recoverable waste
  - •Feasibility study of the means for valorization and sales



- **#** 30
- WASTE MANAGEMENT PLAN IN KENYA
- Place of intervention : Kisumu, Kenya
- Date of intervention: 2017–2018
- Project sector : Waste management
- Project owner / partner : Kisumu City Council / SOFRECO
- Source of funding : AFD
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Identification of improvement perspectives for the City of Kisumu

- Description of the project: Support for technical assistance to the urban development project of Kisumu about solid waste management
- Population possibly impacted by the project: 600 000 inhabitants

# Achieved tasks:

- •Revision of the strategic plan of integrated solid waste management
- Review of the proposal about final treatment of solid waste
- •Design and settling of a 2-step collection system involving the local stakeholders
- Development of new ways of plastic recycling and composting
- Technical support for proposal evaluation and contract writing

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- # 31
- WASTE MANAGEMENT OF TRAMWAY **CENTER IN FRANCE**
- Place of intervention: Marseille, France
- Date of intervention: 2018
- Project sector: Waste management
- Project owner / partner : Metropole of Marseille / EGIS
- Source of funding: Metropole of Marseille
- Role in the project: Waste management expert
- Progress to date: Over
- Impact to date: Insertion of solid waste management into the whole design of the center

- Description of the project: Design of the solid waste management of a maintenance and garaging of the tramway in Marseille
- Population possibly impacted by the project: 900 000 inhabitants
- Achieved tasks:
  - Qualification and quantification of predictable waste
  - Characterization of the dedicated receptacles and premises of the site
  - Analysis of the removal and recovery ways



RECYCLING DEVELOPMENT IN BRAZIL

Place of intervention : Belo Horizonte, Brazil

Date of intervention: 2018

Project sector : Recycling industry

Project owner / partner : INSEA

Source of funding : French Embassy in Brazil

Role in the project : Recycling expert

Progress to date : Over

Impact to date : Preparation of local recycling initiatives

Description of the project: Support for the development of valorization ways in Belo Horizonte

Population possibly impacted by the project: 2,5 million inhabitants

- •Expertise on the supply chains set by the organization INSEA
- Analysis of the possibilities of development of new local supply chains of industrial recycling and organic valorization
- •Presentation of the expectations from circular economy in France during a conference organized by the French Embassy in Brazil



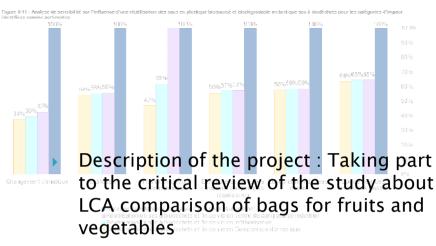
- **#** 33
- RECYCLING INTEGRATION IN BOLIVIA
- Place of intervention : El Alto, Bolivia
- Date of intervention: 2018
- Project sector : Waste management
- Project owner / partner : Organization of local communities / ANTEA
- Source of funding : Interamerican Development Bank
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Integration of local recycling possibilities

Description of the project: Design of the recovery plan for solid waste in the watershed of Lake Titicaca in El Alto Population possibly impacted by the project: 200 000 inhabitants

- ·Diagnostic of the current situation
- Identification of new recovery ways
- Feasibility studies of the recovery ways
- Contribution to the master plan of integral management of solid waste
- Assessment of the possible alternatives
- Planning and design of transit, sorting and recycling facilities
- Support for the development of recycling ways



- **#** 34
- BAG LCA COMPARISON IN FRANCE
- Place of intervention : Angers, France
- Date of intervention: 2018–2019
- Project sector : Environment protection
- Project owner / partner : ADEME / EVEA
- Source of funding : ADEME
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Higher reliability and consistency of the analysis



- Population possibly impacted by the project : 67 millions inhabitants
- Achieved tasks :
  - •Review of the methodology for data collection
  - •Critical reading of the study reports especially about hypothesis and conclusions



- **#** 35
- PACK LCA COMPARISON WORLDWIDE
- Place of intervention : Villeneuve d'Ascq, France
- Date of intervention: 2018–2019
- Project sector : Food industry
- Project owner / partner : BONDUELLE / FVFA
- Source of funding : BONDUELLE
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Eco-design of new packagings for conservative and fresh vegetables



- Description of the project : Eco-design of packaging systems by LCA comparison for BONDUELLE
- Population possibly impacted by the project : ?
- Achieved tasks:
  - Identification and selection of packaging systems to be studied
  - •Gathering data related to the manufacturing and the use of 12 packaging systems at European scale
  - Support for modelization of life cycles of packaging systems
  - Support for interpretation and presentation of LCA results
  - Help with decision making of packaging systems



- **#** 36
- OCEAN PLASTICS IN IVORY COAST
- Place of intervention : Abidjan, Ivory Coast
- Date of intervention: 2019
- Project sector : Environment protection
- Project owner / partner : CIAPOL / KERAN
- Source of funding : French Government
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Better knowledge of local ocean plastics

Description of the project: Support for a project to recover and recycle waste getting into the laguna bays of Abidjan Population possibly impacted by the project: 4.4 million inhabitants

- Qualification and quantification of the concerned waste deposits
- Localization by quarters of the concerned waste deposits
- ·Identification of the local possibilities of valorization
- Design of the collection and sorting system to implement
- Support for the project management



**# 37** 

#### WASTE CHARACTERIZATION IN UAE

Place of intervention : Sharjah, UAE

Date of intervention: 2019

Project sector : Waste management

Project owner / partner : SUEZ / BURGEAP

Source of funding : SUEZ

Role in the project : Packaging expert

Progress to date : Over

Impact to date : Better knowledge of local flows of solid waste Description of the project:
Characterization of commercial and industrial waste flows for a SUEZ valorization project into energy in Sharjah

Population possibly impacted by the project: 1.4 million inhabitants

- Design of the characterization study
- Choice of the flows to be characterized
- •Getting the first results of composition and density
- •Implementation of sampling, sorting and sending of samples to a laboratory in France
- Analysis and interpretation of the whole results



- **#** 38
- INDUSTRIAL ECOLOGY IN FRANCE
- Place of intervention : Beauvais, France
- Date of intervention: 2019
- Project sector : Waste management
- Project owner / partner : CCI Oise / INEX
- Source of funding : CHANEL
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Preparation of a new local recycling way

Description of the project: Feasibility of an industrial and territorial ecology project for the valorization of label backing in Oise

- Population possibly impacted by the project : ?
- Achieved tasks :
  - Animation of workshops gathering owners
  - Waste deposit study
  - •Deepening of the supply chain up to specifications
  - Analysis of the economical pattern
  - Mobilization of owners and service providers
  - Definition of the structuration needs
  - Planification of the project



- **#** 39
- WASTE MANAGEMENT IN THE PHILIPPINES
- Place of intervention : Puerto Princesa, Philippines
- Date of intervention: 2019
- Project sector : Waste management
- Project owner / partner : Government of Palawan / EGIS
- Source of funding : ADB
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Sensitization of the local communities to SWM master plans

Description of the project: Master plans of solid waste management for two touristy cities in the province of Palawan Population possibly impacted by the project: 1.1 million inhabitants

- Contextual diagnostics in relationship with other urban services
- Writing of priority investment notes
- •Joint elaboration with the municipalities of master plans for 20 years including an extension of collection, a treatment through composting and a sanitary landfill
- Preparation of feasibility studies for the priority investments



- **# 40**
- PACKAGING ECO-DESIGN IN FRANCE
- Place of intervention : St Laurent-Blangy, France
- Date of intervention: 2020
- Project sector : Food industry
- Project owner / partner : SAS Perle du Nord / EVEA
- Source of funding : ADEME
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date : Choice of the best environmental packagings

- Description of the project : Packaging eco-design for cooperative SAS Perle du Nord
- Population possibly impacted by the project : ?
- Achieved tasks:
  - Training about eco-design to the managing team
  - Selection of most relevant cases
  - LCA comparative studies including new scenarios
  - Development of alternative solutions to plastic materials



- **# 41**
- CONTROL OF EXTERNAL RECYCLING IN FRANCE
- Place of intervention : Paris, France
- Date of intervention : 2020
- Project sector : Recycling industry
- Project owner / partner : CITEO / ANTEA
- Source of funding : CITEO
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Better control procedure of recyclers outside UE



Description of the project : Achievement of a control grid to assessed recyclers outside EU

Population possibly impacted by the project: 67 million inhabitants

- •Review of the criteria from the European legislation related to solid waste management
- Definition of indicators to be assessed for 5 materials with regard to the French regulation
- •Elaboration of the control grid with the various indicators by material
- Writing of a user manual for the auditors



- **# 42**
- WASTE MANAGEMENT IN THE CARIBBEAN REGION
- Place of intervention : Bridgetown, Barbados
- Date of intervention: 2020–2021
- Project sector : Waste management
- Project owner / partner : EU Delegation in Barbados / PROSPECT
- Source of funding : EU
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Identification of new opportunities to fund in the region



- Achieved tasks :
  - •Review of the legislative and regulatory frameworks for the 17 member states of CARIFORUM
  - Assessment of the past and current project in the region
  - Definition of priority needs and recommendations for next steps
  - Development of an action frame of appropriate modalities for a regional plan



- **#** 43
- E-WASTE MANAGEMENT IN NIGER
- Place of intervention : Niamey, Niger
- Date of intervention: 2021
- Project sector : Waste management
- Project owner / partner : ANPER / ANTEA
- Source of funding : AFD
- Role in the project : Waste management expert
- Progress to date : Over
- Impact to date : Identification of new possible recovery ways for e-waste

- Description of the project: Elaboration of an e-waste plan for a rural electrification project
- Population possibly impacted by the project:
- Achieved tasks:
  - ·Identification of the e-waste likely to be produced by an electrification project
  - •Evaluation of local recovery ways in the region
  - •Elaboration of appropriate e-waste collection and recovery procedures for the rural electrification project



- **# 44**
- WASTE MANAGEMENT MASTERPLAN IN IVORY COAST
- Place of intervention : Yamoussoukro, Ivory Coast
- Date of intervention: 2021
- Project sector : Waste management
- Project owner / partner : Ministry of sanitation / IDOM
- Source of funding : World Bank
- Role in the project : Waste management expert and team leader
- Progress to date : Over
- Impact to date : Identification of common ways to collect, recycle and dump solid waste

Description of the project: Elaboration and feasibility study of master plan for 5 cities in central Ivory Coast

Population possibly impacted by the project: 1 million inhabitants

- •Diagnostic of the current situation in the 5 cities
- Definition of appropriate masterplan principles and technologies for SWM
- •Technical capacities and features of the facilities to be planned (transfer stations, decentralized MRFs, sanitary landfill)



- **# 45**
- PACKAGING WASTE IDENTIFICATION
- Place of intervention : Angers, France
- Date of intervention: 2021
- Project sector : Waste recycling
- Project owner / partner : ADEME
- Source of funding : ADEME
- Role in the project : Waste management expert
- Progress to date : In progress
- Impact to date: Start of the declaration campaign for packaging waste recycling

- Description of the project: Definition of the new modes of recycled packaging national declaration
- Population possibly impacted by the project: 67 million inhabitants
- Achieved tasks:
  - •Elaboration of the modalities for recycled packaging national declaration according to EU regulation
  - Feasibility checking of practical procedures
  - Definition of a coding system for the recovered material flows
  - Identification of all national recycling sites



- # 46
- PACKAGING REPLACEMENT EXPERTISE
- Place of intervention : Villeneuve d'Ascq, France
- Date of intervention : 2021
- Project sector : Packaging use
- Project owner / partner : BONDUELLE
- Source of funding : BONDUELLE
- Role in the project : Packaging expert
- Progress to date : Over
- Impact to date: Way forward to replacement of unavailable packaging

- Description of the project : Assessment of a replacement food contact packaging further to sold out
  - Population possibly impacted by the project: 67 million inhabitants
- Achieved tasks:
  - Assessment of the current specifications
  - Evaluation of the operating and use constraints during a site visit
  - •Definition of complementary tests to be performed on new packaging
  - Provisional recommendations and conclusion about the proposed packaging



- **# 47**
- SOLID WASTE MANAGEMENT EXPERTISE
- Place of intervention : Paris, France
- Date of intervention : 2022
- Project sector : General services
- Project owner / partner : MALAKOFF HUMANIS / BURGEAP
- Source of funding : MALAKOFF HUMANIS
- Role in the project : Waste expert
- Progress to date : Over
- Impact to date : better recovery and recycling of main waste streams

- Description of the project: Support for improving corporate solid waste management
- Population possibly impacted by the project: 6 000 employees
- Achieved tasks:
  - Diagnostic of the various sites
  - ·Identification of gaps with regards to legislation
  - ·Identification of possible projects to improve reduction and recycling
  - Setting of guidelines for action plan



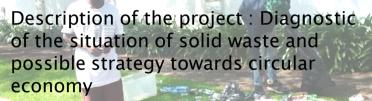
# 48

- SOLID WASTE MANAGEMENT EXPERTISE
- Place of intervention : Nouakchott, Mauritania
- Date of intervention: 2022
- Project sector : Waste management
- Project owner / partner : MERIDIAM / CPCS
- Source of funding : MERIDIAM
- Role in the project : Recycling expert
- Progress to date : Over
- Impact to date : Strategic knowledge for investment in solid waste management

- Description of the project: Economical study about recycling major materials in Mauritania
- Population possibly impacted by the project: 5 millions inhabitants
- Achieved tasks :
  - •Evaluation of previous and current recycling activities in Nouakchott
  - Diagnostic of solid waste recycling possibilities in Nouakchott
  - •Estimation of the market price and volumes for recycled plastics, metals and organics
  - •Forecast of the market price according to international offer and demand for recycled materials



- **# 49**
- SOLID WASTE MANAGEMENT EXPERTISE
- Place of intervention : Johannesburg, South Africa
- Date of intervention: 2022
- Project sector : Waste management
- Project owner / partner : Ministry of Fnvironment
- Source of funding : OmegaPack
- Role in the project : Waste expert
- Progress to date : Over
- Impact to date: Awareness about the possible implementation of circular economy patterns



- Population possibly impacted by the project: 59 millions inhabitants
- Achieved tasks:
  - •Identification and evaluation of current patterns for collecting and recycling solid waste
  - •Discussion with Greater Johannesburg Metropolitan Council and the Ministry of Environment about possibilities to foster circular economy



- **# 50**
- WASTE RECYCLING EXPERTISE
- Place of intervention : Dunkerque, France
- Date of intervention: 2022
- Project sector : Waste recycling
- Project owner / partner : DISTRIPLAST
- Source of funding : DISTRIPLAST
- Role in the project : Packaging expert
- Progress to date : In progress
- Impact to date: Way forward to involving new reverse providers

- Description of the project: Assessment of a replacement food contact packaging further to sold out
- Population possibly impacted by the project: 67 million inhabitants
- Achieved tasks:
  - Assessment of the current specifications
  - Evaluation of the operation and use constraints during a site visit
  - Provisional recommendations and conclusion about the proposed packaging