**CHAPTERS 4 and 5 OF EBM FINALE REPORT**

The EBM Final report is a technical report.

*Instructions*: *Chapters 4 and 5 are a merge between the System Cause-Effect Analysis, “Integration Report\_AdT System Cause-Effect Analysis\_AGRICULTURE.docx”, “Integration Report\_AdT System Cause-Effect Analysis\_WATER AND TOURISM.docx” and the ISP graphs. You can also integrate the text using your document “Documento Progetto\_Def.docx”.*

*Merging the two documents here means that you have to explain with words - in a synthetic way - the rows of the system cause-effect analysis that brought to your protocols' proposals. When you have data, you take the graphs and the pertinent info from your documents and you add them in the text. When you don't have the data, but you have only the indicators, you copy-paste in the text the table of the indicators and you say that you have no information yet, and this is the reason why you want to go to the field to collect data (gap analysis). Everything needs a justification.*

*So, at the end, you will have in the EBM final report the System C-E Analysis table as an Annex, but you have also a written part + graphs and indicators, in which the reader can understand our step-by-step path that brought us to propose and write certain protocols*.

***In green, an example, without text. The written part will be a synthetic dissertation about the nature of the components’ relation, and justification – based on the data - for the protocols suggested.***

**CONTENT OF CHAPTER 4 OF EBM FINALE REPORT**

# 4 - Application case: marine-coastal water and Tourism (Italy).

**Introduction**

**4.1 – *Marine-Coastal water (Acque marino-costiere*) *-> Wastewater treatment (Trattamento acque reflue)***

4.1.1 - Process explanation: diagram + components + relations

4.1.2 – From the gap analysis to the identification of options and opportunities

**4.2 – *Marine-Coastal water (Acque marino-costiere*) *-> Rainfalls***

4.2.1 – Process explanation: diagram + components + relations

4.2.2 - Options and opportunities already identified

**4.3 – *Marine-Coastal water (Acque marino-costiere*) *-> Tourist accomodations (Strutture ricettive)***

4.3.1 – Process explanation: diagram + components + relations

4.3.2 - Options and opportunities already identified

**4.4 – *Marine-Coastal water (Acque marino-costiere*) *-> Population (Popolazione)***

4.4.1 – Process explanation: diagram + components + relations

4.4.2 - Options and opportunities already identified

**4.5 – *Marine-Coastal water (Acque marino-costiere*) *-> Business (Imprese)***

4.5.1 – Process explanation: diagram + components + relations

4.5.2 - Options and opportunities already identified

# 5 - Application case: agriculture (Italy).

**Introduction**

**5.1 – *Agriculture (Agricoltura) -> Livestock farms (Allevamento)***

5.1.1 - Process explanation: diagram + components + relations

5.1.2 – From the gap analysis to the identification of options and opportunities

**5.2 – *Agriculture (Agricoltura) -> Hydrography and water quality (Idrografia e qualità delle acque)***

5.2.1 - Process explanation: diagram + components + relations

5.2.2 – From the gap analysis to the identification of options and opportunities

**5.3 – *Agriculture (Agricoltura) -> River infrastructures (Infrastrutture fluviali)***

5.3.1 - Process explanation: diagram + components + relations

5.3.2 – From the gap analysis to the identification of options and opportunities

**5.4 – *Agriculture (Agricoltura) -> Freshwater fish (Pesci delle acque interne)***

5.4.1 - Process explanation: diagram + components + relations

5.4.2 – From the gap analysis to the identification of options and opportunities

**5.5 – *Vineyards, Olive trees, citrus orchards (Coltivazioni legnose agrarie) -> Riparian vegetation and lowland woods (Vegetazione fascia ripariale e bosco planiziale)***

5.5.1 - Process explanation: diagram + components + relations

5.5.2 – From the gap analysis to the identification of options and opportunities

**5.5 – *Socio-economic network (Matrice socio-economica) -> Soil (Suolo)***

5.5.1 - Process explanation: diagram + components + relations

5.5.2 – From the gap analysis to the identification of options and opportunities

Line 5 of the System Cause-Effect Analysis

***Marine-Coastal water (Acque marino-costiere*) *-> Tourist accomodiations (Strutture ricettive)***

[Acque Marino Costiere (Id=152)]

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Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Indicators attached to component: Acque Marino Costiere (Id=152)** | | | | |
| **Name** | **Description** | **DataSource** | **UpdateFrequency** | **Notes** |
| Parametri Chimico - Fisici |  |  |  |  |
| Water Quality compared on Number of Turists |  |  |  |  |
| Qualità delle Acque di Balneazione (EEA) | Classificazione basata su valori di E.coli ed Enterococchi | European Environment Agency | Annuale | Per valori di E.Coli ed Enterococchi secondo Direttiva Ufficiale |
| Qualità delle Acque di Balneazione (Portale Acque) | Valori Assoluti di Enterococchi ed Escherichia Coli. | Portale Acque del Ministero dell'Ambiente | Annuale |  |

Qualità delle Acque di Balneazione (EEA)

Amendolara

A graph with red and orange bars

Description automatically generated

Cassano allo Ionio

A graph of different colored bars

Description automatically generated with medium confidence

Corigliano-Rossano

A graph with red and brown bars

Description automatically generated

Trebisacce

A graph with different colored bars

Description automatically generated with medium confidence

Villapiana

A graph with red and orange bars

Description automatically generated

Strutture Ricettive (Id=74)]

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Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Indicators attached to component: Strutture Ricettive (Id=74)** | | | | |
| **Name** | **Description** | **DataSource** | **UpdateFrequency** | **Notes** |
| Strutture Ricettive e Posti Letto |  | ISTAT | Annuale |  |
| Qualità Acqua Balneazione / Turismo |  |  |  |  |
| Arrivi e Presenze |  | ISTAT | Annuale |  |
| Intensità Turistica | Indicatore | ISTAT | Annuale |  |
| Incidenza Turismo sui Rifiuti | Indicatore | ISTAT e ISPRA | Annuale |  |
| Aziende Agrituristiche | Indicatore | ISTAT | Annuale | Da intendere non solo come alloggi, ma come attività che forniscono altri servizi (ristorazione, attività escursionistiche, degustazioni...) |
| Incidenza Turismo sui Consumi di Acqua Potabile | Indicatore | ISTAT | Annuale |  |

In the S. C-E Analysis there is an analysis about “Dati su arrivi e presenze turistiche”. Looking the data in the ISP:

Arrivi e Presenze turistiche per comune:

Albidona

A screenshot of a graph

Description automatically generated

Amendolara

A close-up of a graph

Description automatically generated

Cassano allo Ionio

A graph of different colored bars

Description automatically generated with medium confidence

Corigliano-Rossano

A graph of different colored bars

Description automatically generated with medium confidence

San Demetrio Corone

A screenshot of a graph

Description automatically generated

Santa Sofia d'Epiro

A screenshot of a graph

Description automatically generated

Tarsia

A graph of different colored bars

Description automatically generated with medium confidence

Terranova da Sibari

A screenshot of a graph

Description automatically generated

Trebisacce

A close-up of a graph

Description automatically generated

Villapiana

A close-up of a graph

Description automatically generated

Indicator: Qualità Acqua Balneazione / Turismo

2019

A screenshot of a graph

Description automatically generated

2020

A graph of different colored squares

Description automatically generated with medium confidence