

INTRODUCTION

Luxembourg's National Cancer Registry (Registre National du Cancer du Luxembourg, RNC) is a Population-Based Cancer Registry (PBCR), established in 2013, collecting all new cancer cases diagnosed and/or treated on the territory of Luxembourg.

To date, no research study has been conducted using RNC data, and few RNC data has been published so far.

RELIANCE is a large project aiming to use RNC data for cancer epidemiology and prevention research in Luxembourg and increase RNC data quality and linkability with potential other secondary data sets. RELIANCE Breast Cancer (RELIANCE-BC) is the first pilot study of RELIANCE, which will investigate breast cancer epidemiology in Luxembourg.

Methods developed under the RELIANCE-BC study will be used in future RELIANCE studies investigating other cancer types, such as colorectal cancer, lung cancer, and prostate cancer.

OBJECTIVES

This first pilot study is divided into a two-step approach:

STEP ONE:

A retrospective analysis of the RNC female breast cancer cohort from 2013-2018.

- To describe the breast cancer cohort features, including associations and overall survival rates;
- To evaluate the waiting times for female breast cancer diagnosis and treatment;
- To evaluate the female breast cancer incidence and mortality over time (time trends);
- To evaluate the female breast cancer net survival;

STEP TWO:

To evaluate associated risk factors for breast cancer and the barriers and facilitators to return to work after diagnosis*.

*A cross-sectional prospective study based on an online self-administrate questionnaire will collect additional data from breast cancer survivors having visited the occupational health service in Luxembourg - called "Service de Santé au Travail Multisectoriel" (STM). If explicit consent is provided, collected data will be linked to STM breast cancer patient data and a RNC dataset of the 2013-2018 cohort.

CONCLUSION & OUTPUTS

This study will not only produce indicators of breast cancer in Luxembourg for the first time but will also support data quality and usability. Furthermore, at an international level, this study will provide insights into the future uses of PBCRs for small developed countries.

MATERIALS and METHODS

RELIANCE-BC is a cohort study with a retrospective approach in **STEP ONE** and a cross-sectional approach with prospective data collection in **STEP TWO**.

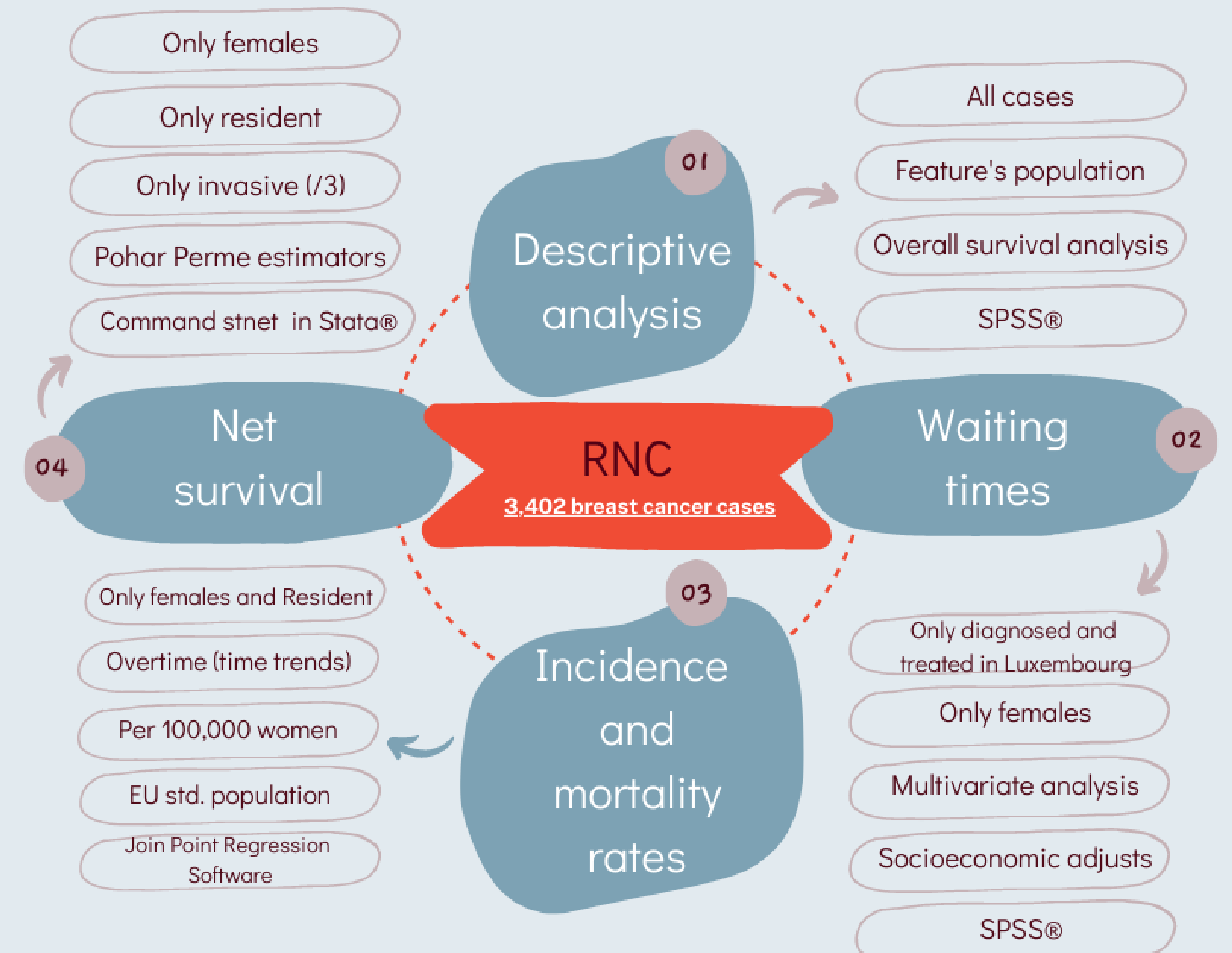


Figure 1. Scheme STEP ONE.

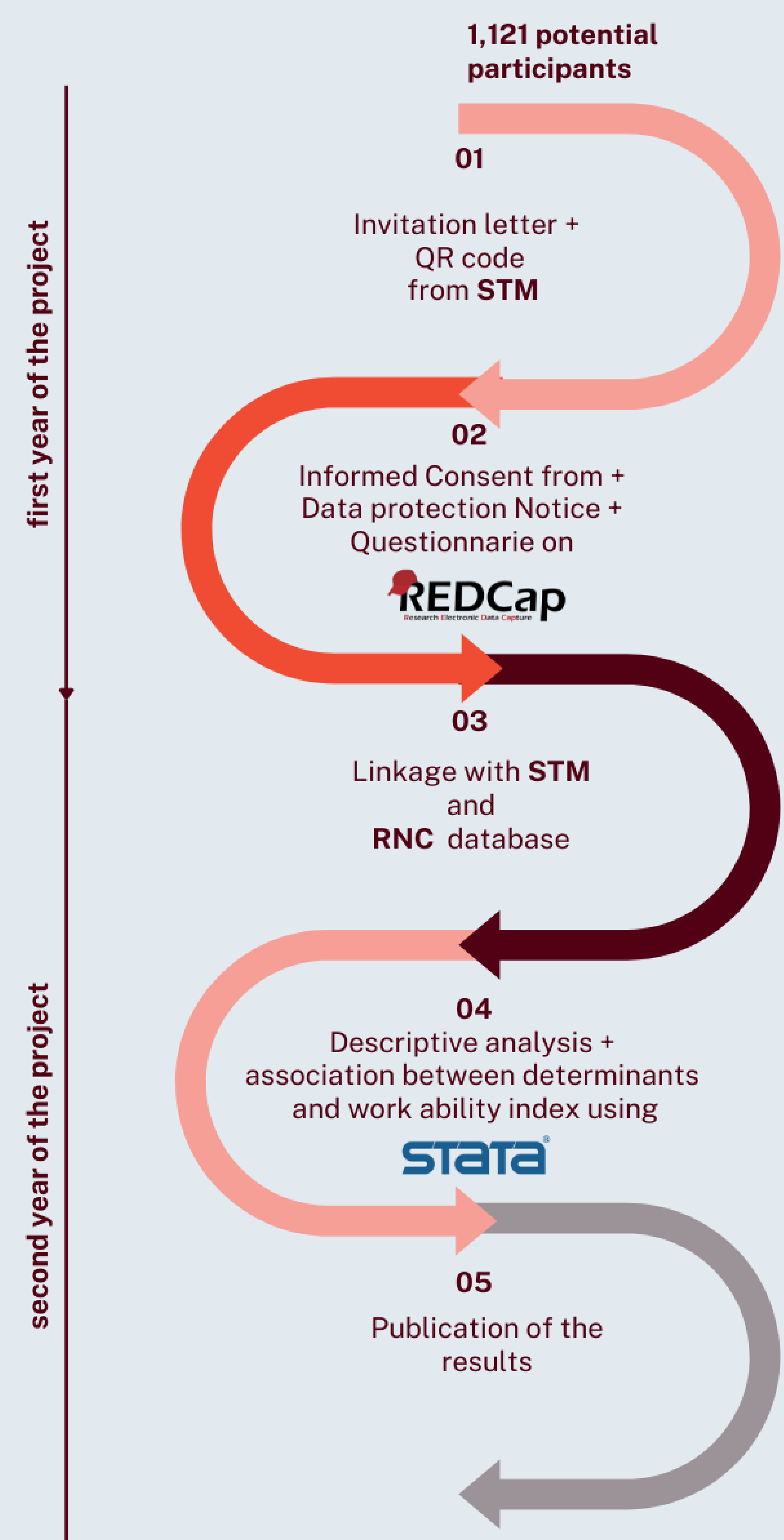


Figure 2. Scheme STEP TWO.