

# SANITATION IN INFORMAL TENTED SETTLEMENTS IN LEBANON

LEBANON

**1,5 MILLION** of refugees  
**6 MILLIONS** of inhabitants

## A PRECARIOUS STATUS

Lebanon is not signatory of the Geneva convention of 1951 regarding the refugee status. Camps hosting refugees from Syria do not have legal recognition by Lebanon and are considered as **informal**.

**Legal precarity implied an economic instability** (illegal employment) while rent and public utilities are not free of charge in informal tented settlements (ITS).

## IMPACTS ON SANITATION

The informal nature of the camps implied challenges to implement sustainable solutions, **preventing the construction of new waste water networks** or connection to existing ones.

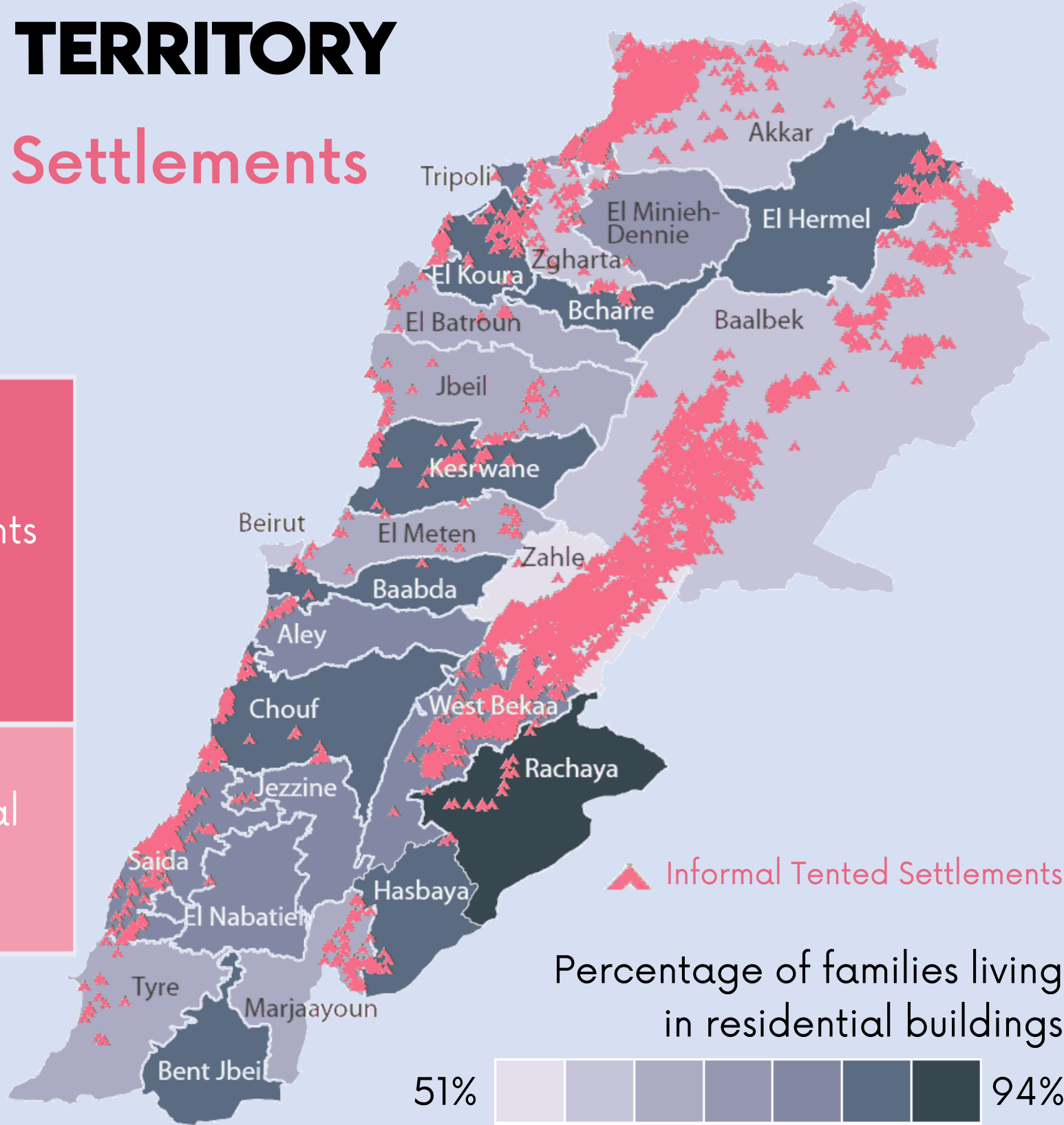
## REFUGEES ON THE TERRITORY

**5181 Informal Tented Settlements**

5,72 persons per tent

25 tents per camp

|                                      |   |
|--------------------------------------|---|
| Residential buildings<br>1,1 Million | Informal Tented<br>Settlements<br>255,000 |
|                                      | Non-residential<br>buildings<br>135,000   |



Percentage of families living  
in residential buildings  
51% 94%

## COLLECTION OF WASTE WATER AND EXCRETA

**80% of PIT LATRINES**

- **Low pathogens reduction**
- **Odours and public health issues**
- **Groundwater contamination** and acute **vulnerability** to natural disasters

IMPROVEMENT

Single Ventilated  
Improved Pit

## USER INTERFACE

**1 LATRINE FOR  
9 PERSONS**

- **Insecurity** (mainly for women) and **hygiene issues**
- Issues of **open defaction**
- **43%** of people have an access to latrines preventing from direct contact with faeces (with a slab and a flush for example)

## COLLECTION AND CONVEYANCE

- Frequent and **costly** waste water emptying (weekly / monthly)
- **Public health risk** while emptying

## DISPOSAL AND TREATMENT

**SLUDGES HARDLY EVER  
TREATED**

- **Uncontrolled emptying** in waterways and disposal in landfill sites
- **Limited access to working waste water treatment**
- **Contamination** of aquatic environments

Informal camps are located on **private lands**, mainly in **rural areas**.

This raise the issue of the **deterioration** of sites and the challenge of their **rehabilitation**.

