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University of Coimbra







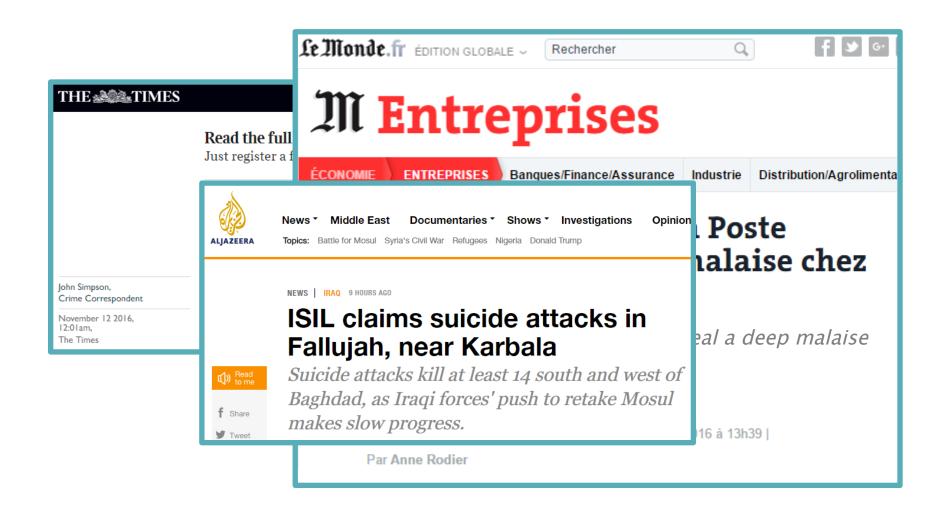


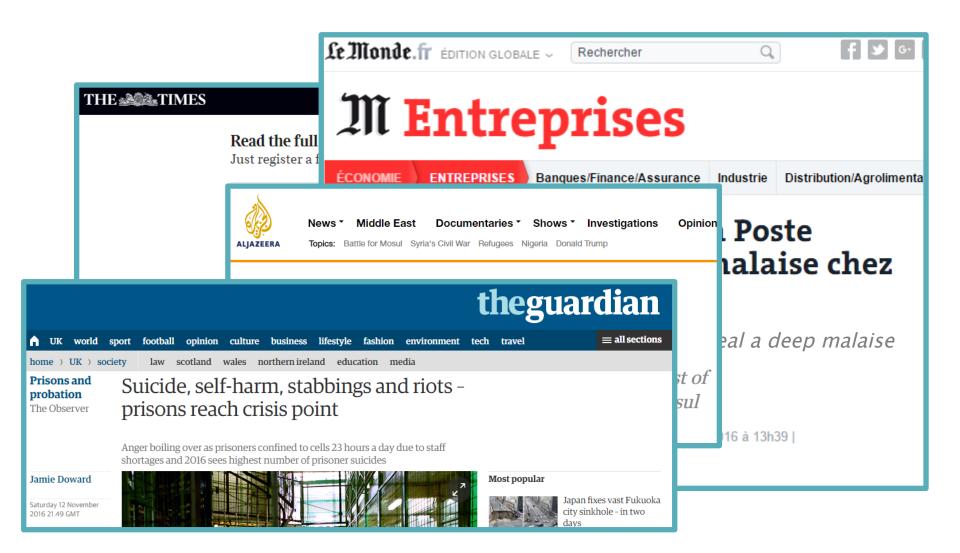




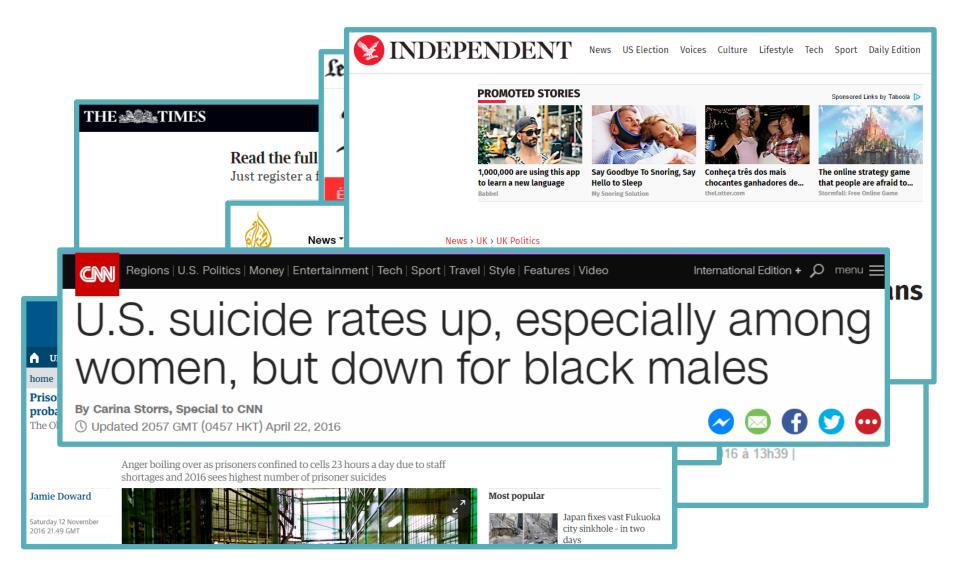


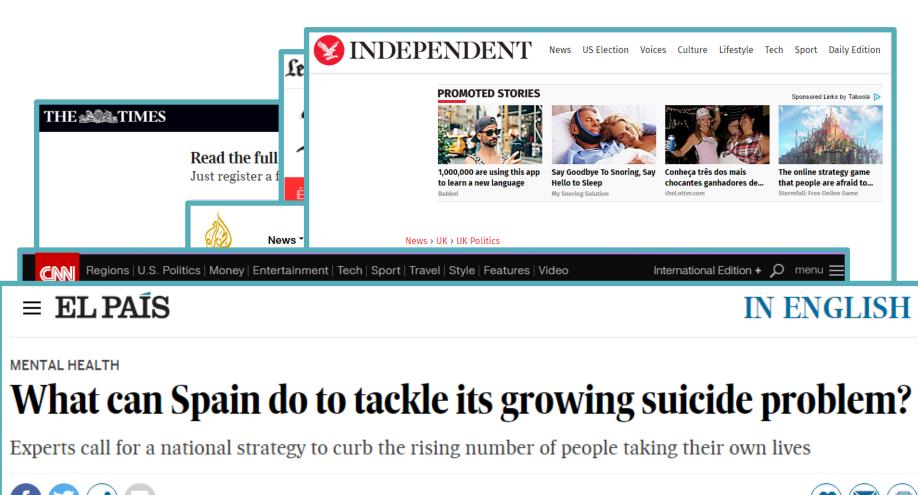












BARBARA AYUSO

Madrld - 16 SEP 2016 - 16:08 CEST



Sociedade











O que o filho de Leonard Cohen tem a agradecer ao pai



Mundo "Luzes de terramoto" vistas nos céus da Nova Zelândia durante o sismo



Fotogalerias A Super Lua sobre Li





Aumento de suicídios está relacionado com a crise económica

[Suicide increase is related to the economic crisis]





oblem?

Saúde

14 DE JUNHO DE 2016 08:56

















Madrld - 16 SEP 2016 - 16:08 CEST





Sociedade









O que o filho de Leonard Cohen tem a agradecer ao pai

INÍCIO

Opinião

Sociedade



Mundo "Luzes de terramoto" vistas nos céus da Nova Zelândia durante o sismo



Fotogalerias A Super Lua sobre Li



ort Daily Edition











Aumento de suicídios está relacionado

8 Setembro 2016

↑ U home Priso proba

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Saturday 12

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Últimas

NOTÍCIAS

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VÍDEOS

Economia

FOTOS

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Motores

DIÁRIO

Tecnologia

Concelho com maior taxa de suicídio passa a ter consultas de psiquiatria

Consultas vão funcionar em Santiago do Cacém e Odemira duas vezes por semana.

2015-10-05 15:39 / AM



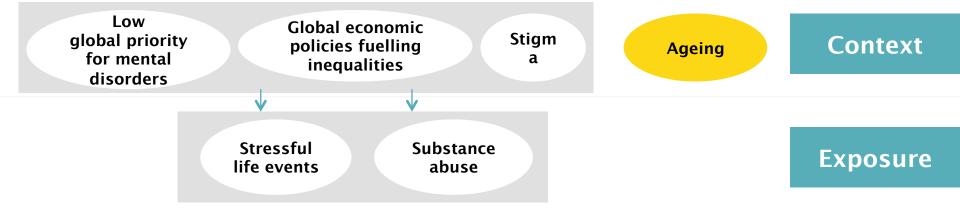


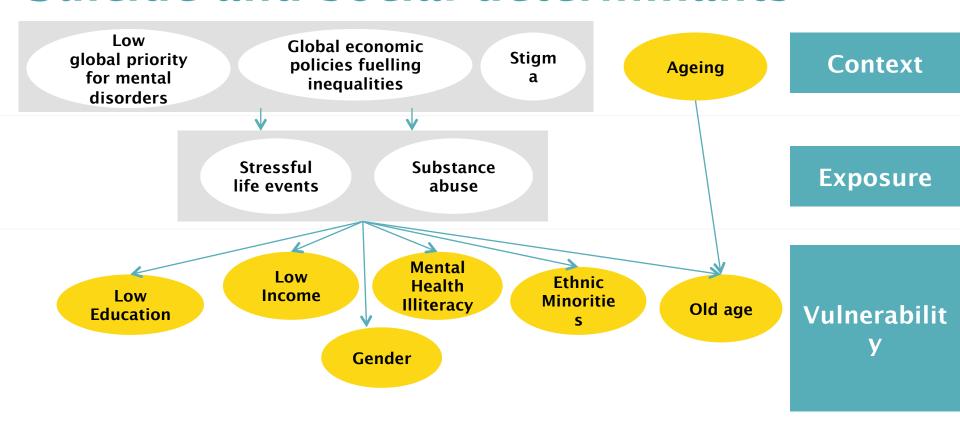
Low global priority for mental disorders

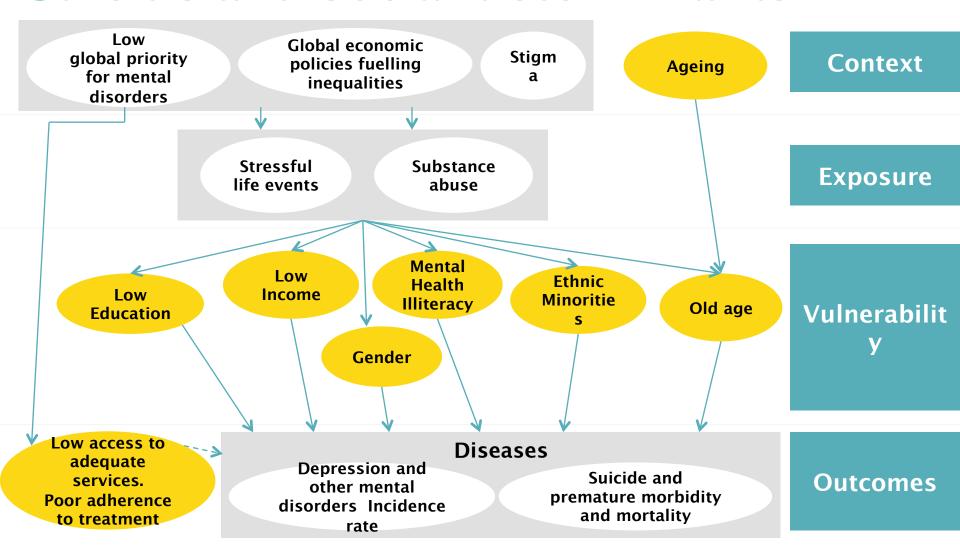
Global economic policies fuelling inequalities

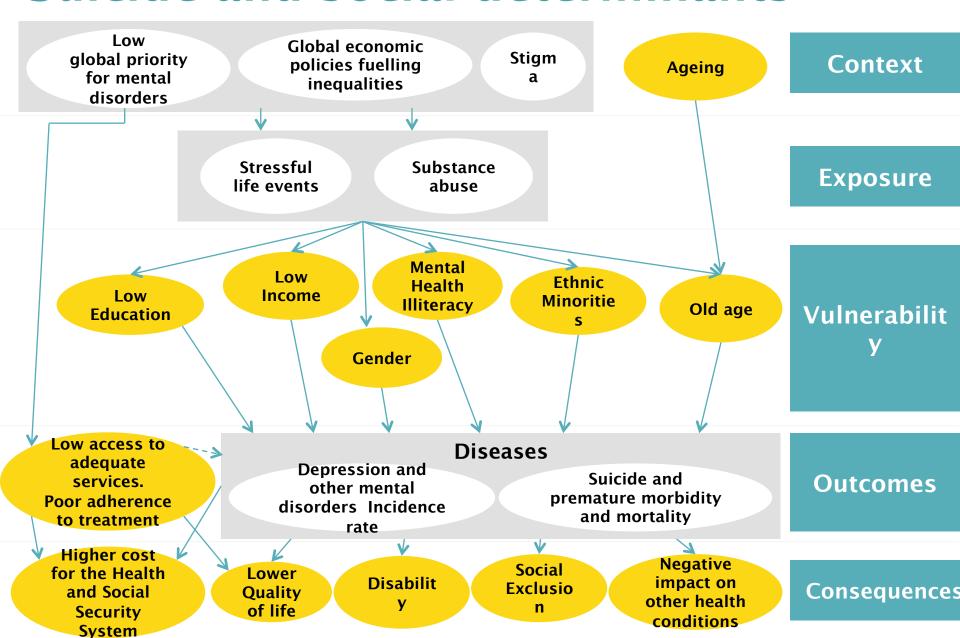
Stigm a Ageing

Context



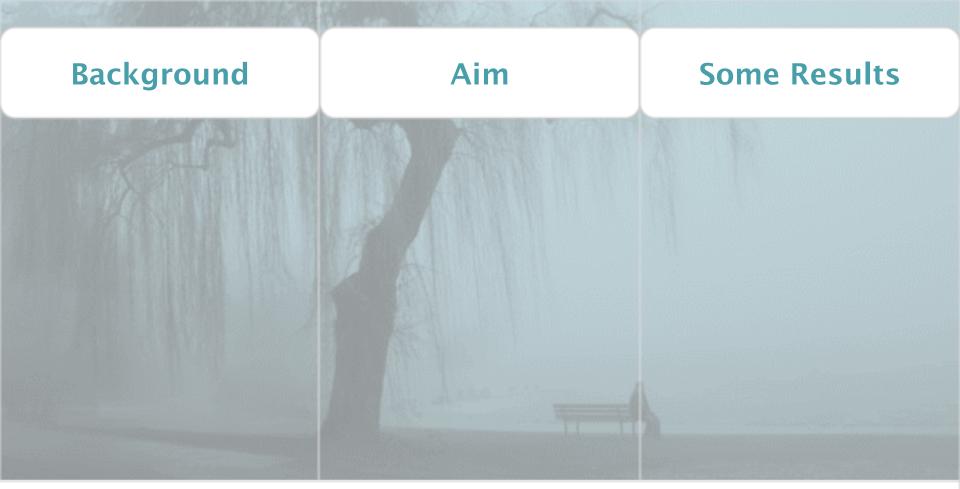


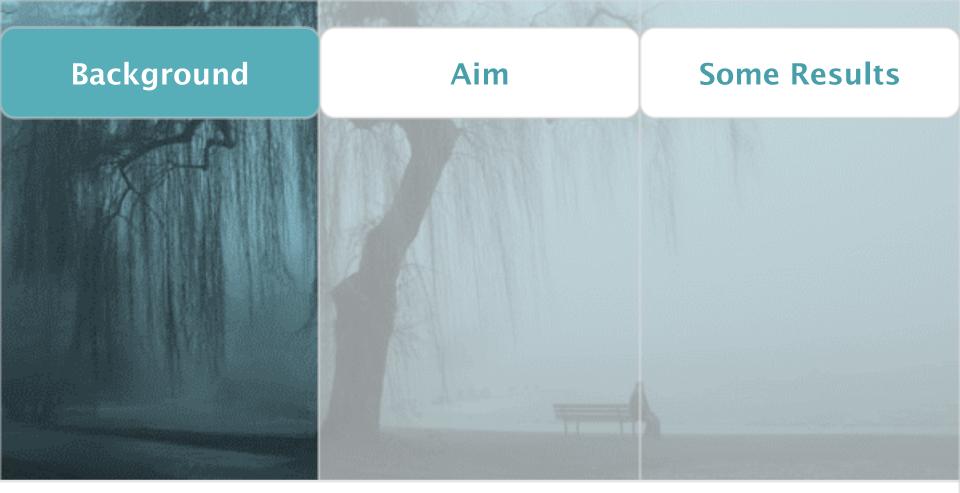












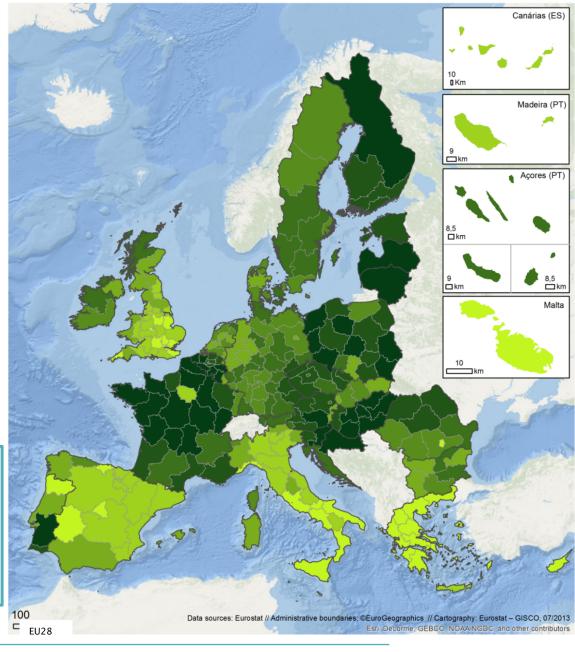
Portugal in the European

Contavt

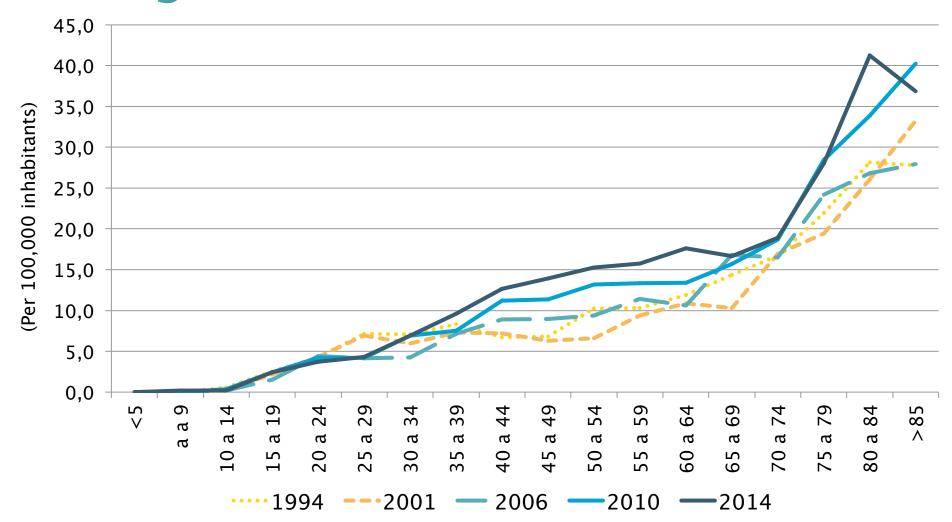
SMR by suicide per 100,000 inhabitants, 2011-2013

| | | | | | • | | |
|---------|-------------|--------------|------|------|------|------|------|
| 2,9 | 6,4 | 8,4 | 10,7 | 12,3 | 14,0 | 17,6 | 33,3 |
| Classif | ication Met | hod: Quantil | le | | | | |

| Portugal | 9,8 |
|--------------------------|------|
| Norte Region | 5,8 |
| Centro Region | 10,6 |
| Lisboa Metropolitan Area | 9,5 |
| Alentejo Region | 21,4 |
| Algarve Region | 14,4 |
| Açores Islands | 13,2 |
| Madeira Islands | 7,6 |

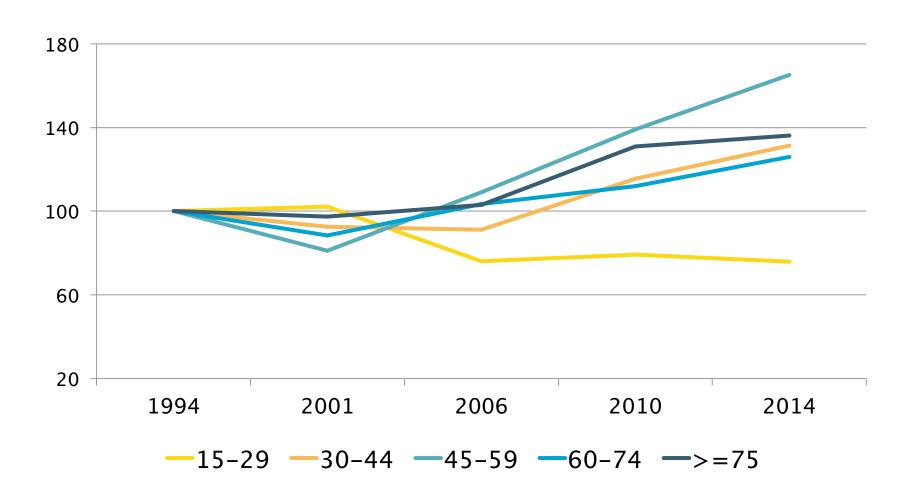


Suicide mortality rate by age group in Portugal

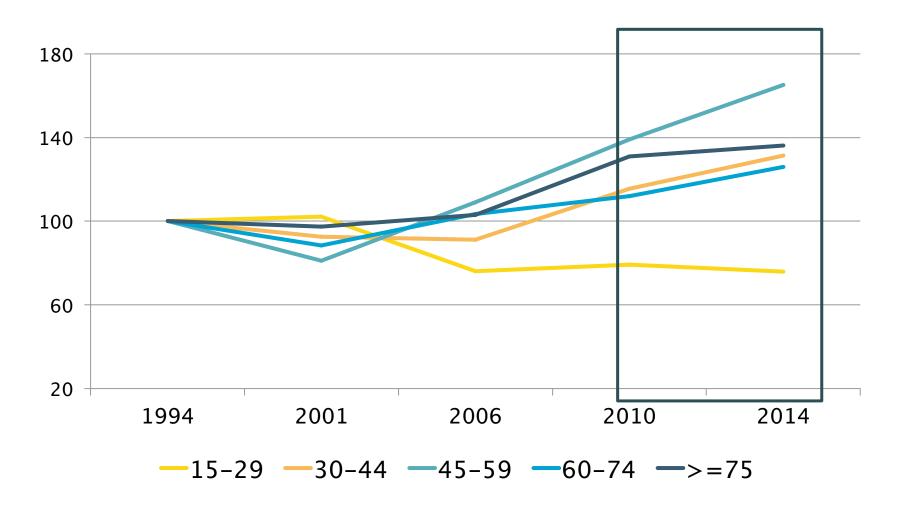


Source: Eurostat

Suicide mortality rate by age group in Portugal (1994 = 100)



Suicide mortality rate by age group in Portugal (1994 = 100)





Aim

To verify if there is a **statistical associatio** between the **Mortality by Suicide** and the **spatial determinants of the** Place of residence

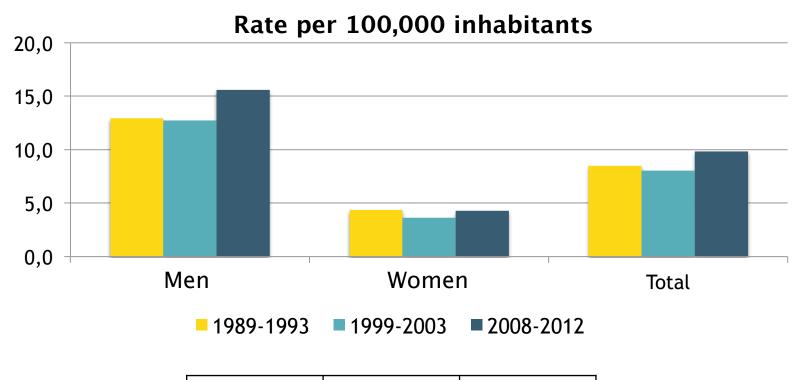
Before and during the economic crisis (1989–1993, 1999–2003, 2008–2012) In the municipalities of Portugal Mainland





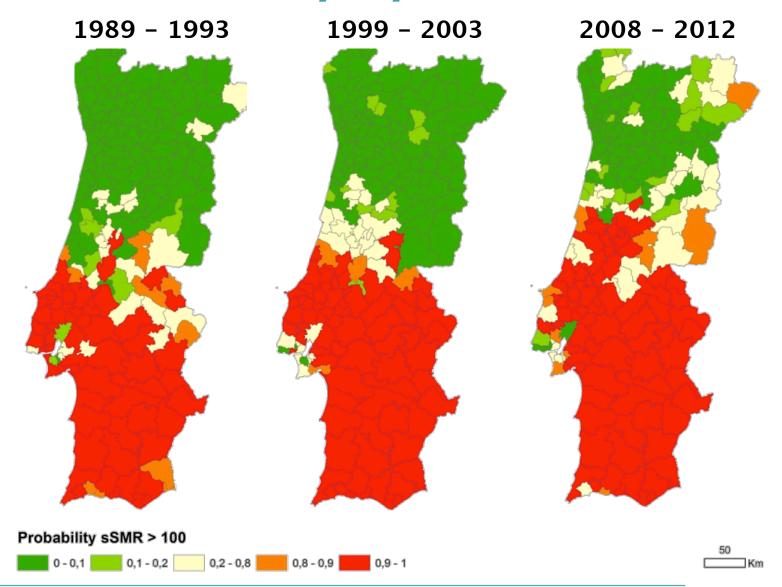
Data

Mortality: Deaths from suicide and self-inflicted injuries (ICD10: X60-X84; E950-E959)



| Men | N= 2.921 | N= 3.034 | N= 3.824 |
|-------|----------|----------|----------|
| Women | N= 1.061 | N= 929 | N= 1.124 |

Risk of mortality by suicide (Mainland=100)

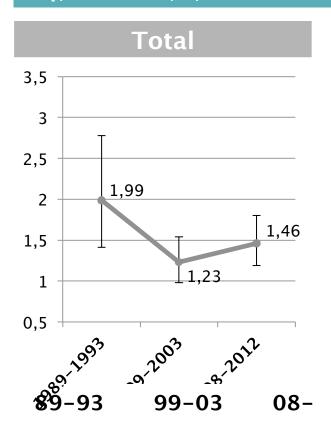


Suicide: Association with Material Deprivation (1989-93

1000 02, 2000 12)

Quintile of higher deprivation vs Quintile of less

it**depriation**employment rate + Substandard housing rate



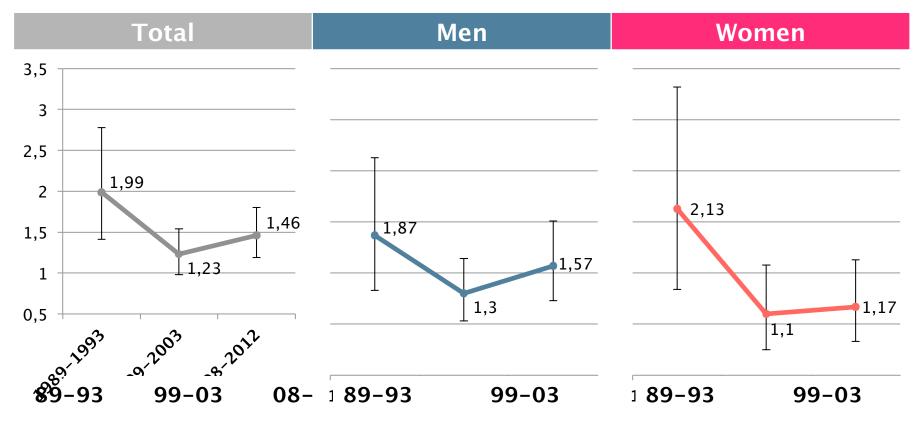
Source: Santana et al, 2015

Suicide: Association with Material Deprivation (1989-93

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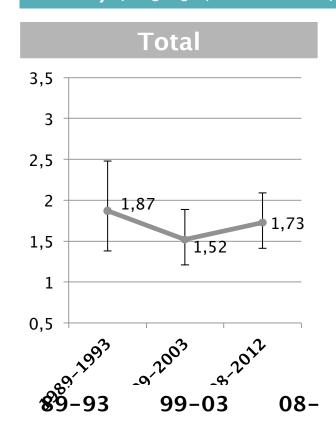
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Suicide: Association with the Rurality (1989-93; 1999-03;

Quintile of higher rurality vs Quintile of less

Il**rubradity**ity + geographic accessibility to hospitals + rural population)



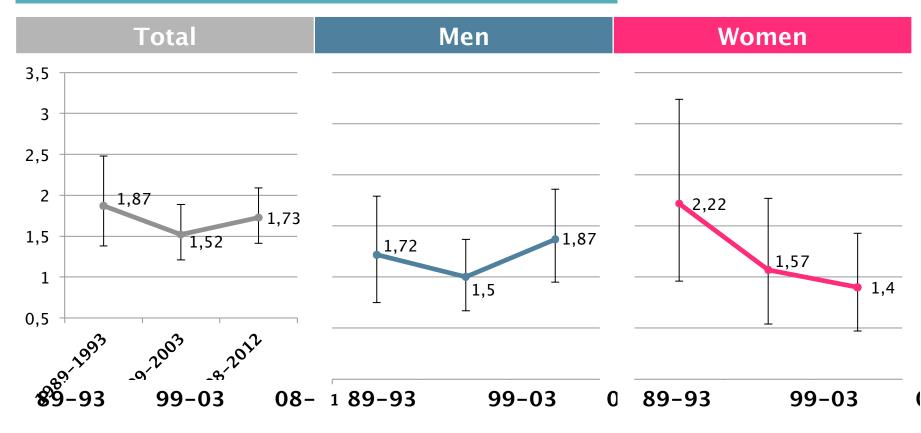
Source: Santana et al, 2015

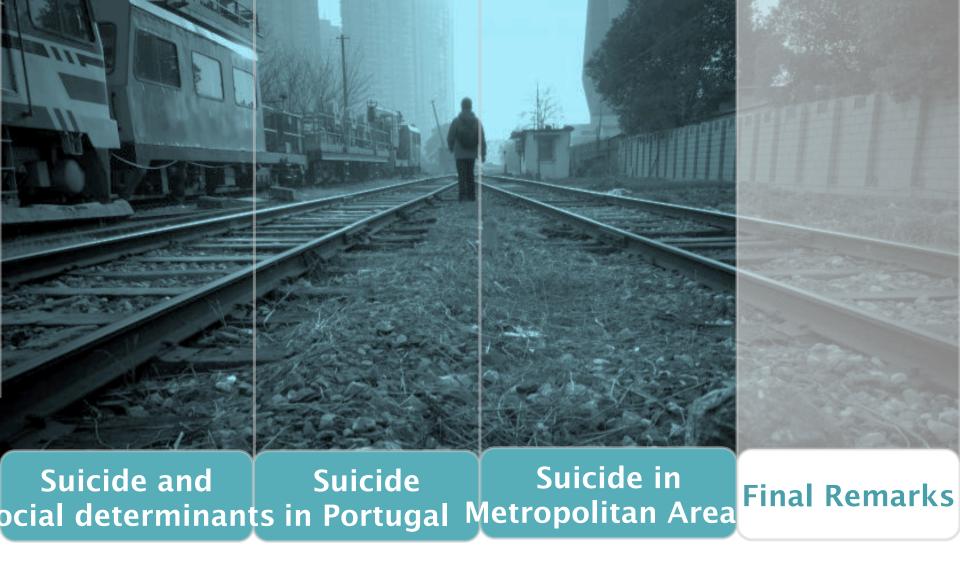
Suicide: Association with the Rurality (1989-93; 1999-03;

2000 121

Quintile of higher rurality vs Quintile of less

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Suicide Mortality in the Metropolitan Areas

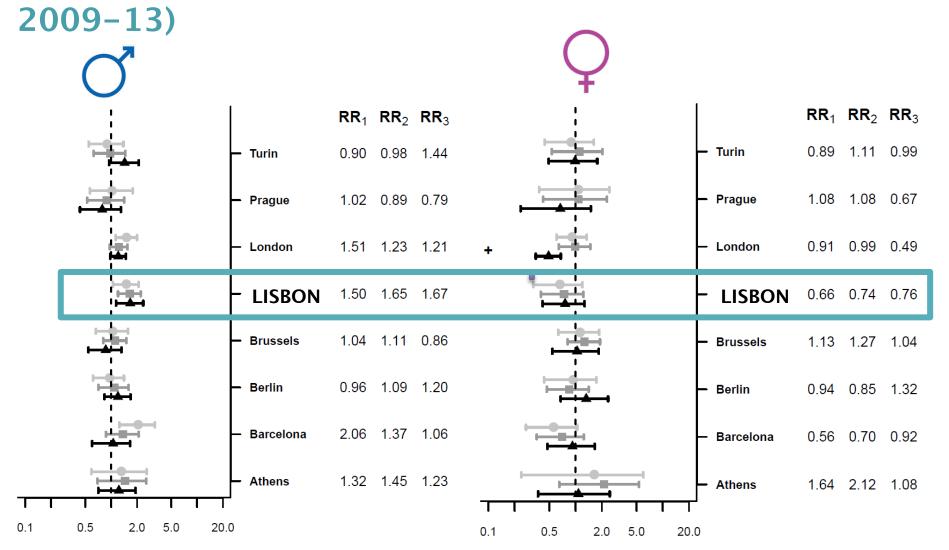


Suicide Mortality in the Metropolitan Areas



Suicide Mortality in the Metropolitan Areas

Suicide: association with the material deprivation in 8 metropolitan areas (2000-03; 2004-0



Source: EURO-HEALTHY@Carme Borrell, ASPB RR₁: 2000-2003* RR₂: 2004-2008* RR₃: 2009-2013

Suicide in Portugal: Spatial determinants in a context of economic enists ight differences between metropolitan areas Paula Santana



Suicide Mortality in the Metropolitan Areas

Aim

To verify if there is a statistical association between the Mortality by Suicide and the spatial determinants of the place of residence

In the parishes of Lisbon and Porto Metropolitan Areas, during a period of 10 years

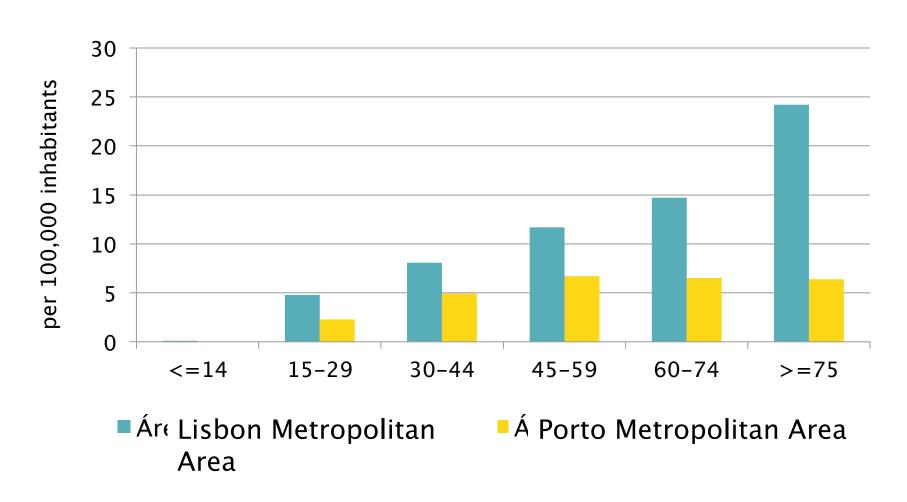




Suicide Mortality in the Metropolitan Areas

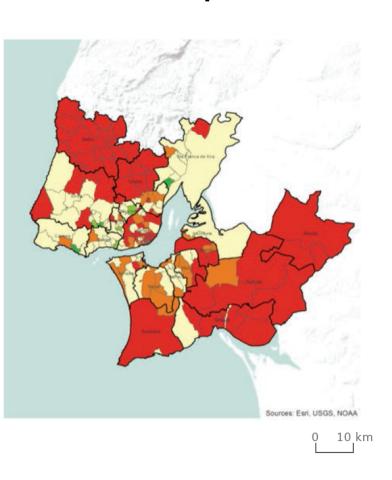
Source: Costa et al, 2015

Suicide by age group, 2002-2012



Risk of mortality by suicide, 2002-2012

Lisbon Metropolitan Area



Risk of mortality by suicide

0,020 - 0,100

0,101 - 0,200

0,201 - 0,800

0,801 - 0,900

0,901 - 1000

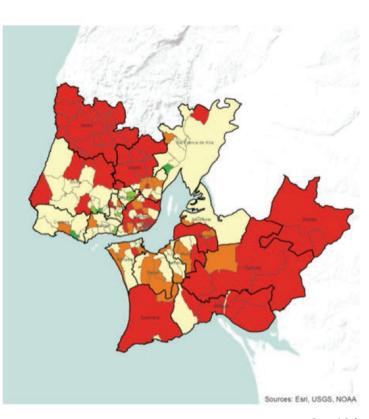
Municipalities

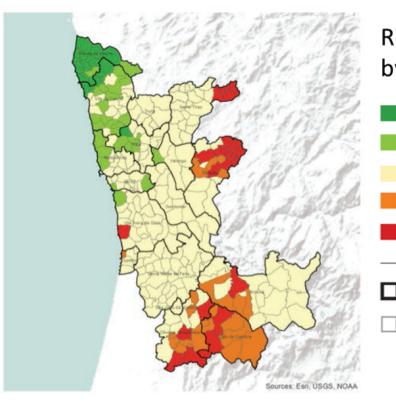
□ Parishes

Risk of mortality by suicide, 2002-2012

Lisbon Metropolitan Area

Porto Metropolitan Area





Risk of mortality by suicide

0,020 - 0,100

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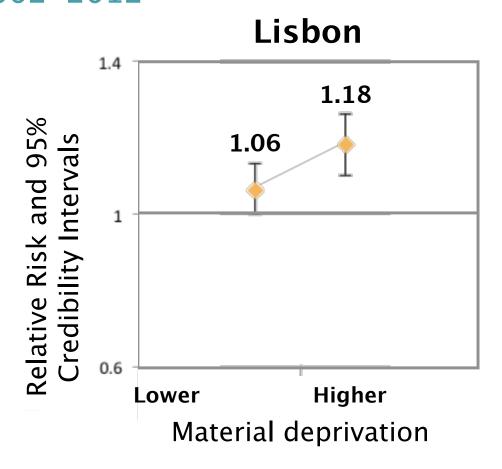
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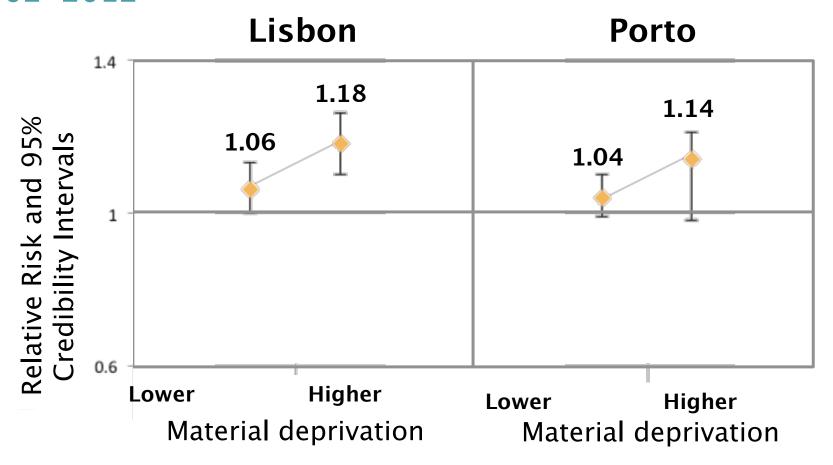
Municipalities

Parishes

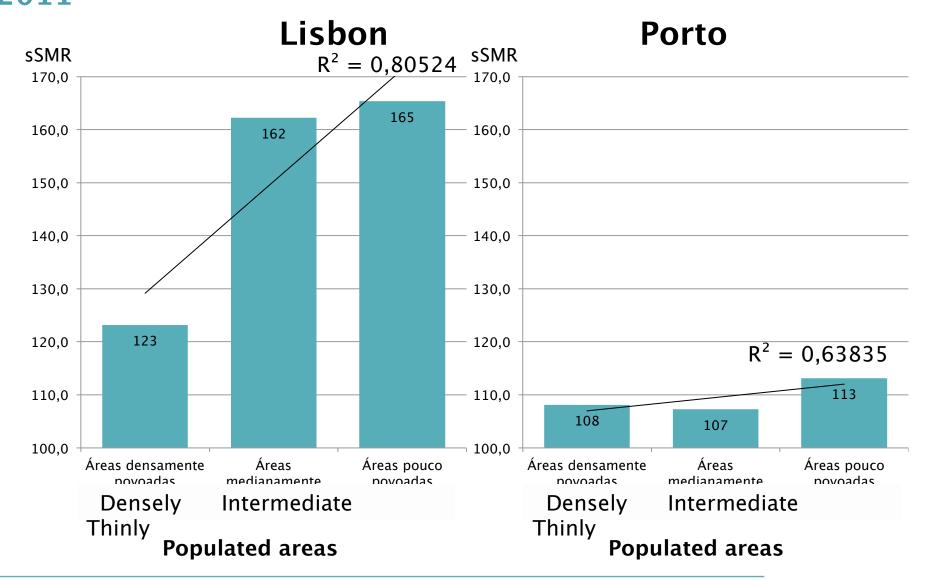
Suicide: association with material deprivation, 2002–2012



Suicide: association with material deprivation, 2002–2012



Suicide: association with degree of urbanization, 2011







Final Remarks

Suicide in Portugal (20 years: 1989-93 | 2008-12)

- The North/South pattern of suicidal behaviour is fading away
- The urban/rural divide of suicide mortality has become more pronounced, mainly in the metropolitan areas
- Higher rurality and material deprivation lead to higher risk of suicide in Men (not in Women)
- Increased suicide is associated with context conditions (spatial and social determinants), that is,
 - It is accentuated in times of crisis

It is necessary to develop:

Actions/interventions that promote a reduction of negative effects of rurality and material deprivation to help reduce suicide mortality

Suicide in the Metropolitan Areas (10 year 2002-2012)

European metropolitan context: suicide has increased in the Lisbon Metropolitan Area

Lisbon Metropolitan Area versus Porto Metropolitan Area

- Higher mortality by suicide in the Lisbon Metropolitan Area
- The tendency is the higher the material deprivation, the higher the suicide risk
- Only statistically significant in the LMA

 It suggests that is necessary to design:

 Interventions and actions that address the

 determinants of poverty related to (e.g.) literacy,

 employment

 and housing conditions

The Reliability of the numbers

"Portugal still presents
inaccurate statistics for causes of
death, with about a 9.6% (2013)
rate of ill-defined deaths"
Santana et al, 2015

"The true standardized suicide rates in Portugal will be higher than the official current value (2009)

7.5/100,000 inhabitants may be around **12.0 a 14.0**/100,000 inhabitants" Gusmão, 2013 Research Team:

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Graça Cardoso Joana Lima

José Caldas de Almeida

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Thank you!

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http://www.uc.pt/fluc/gigs/SMAILE















