



A socio-ecological perspective of adolescents' risk and resilience online

Findings from EU Kids Online at "Research Twilight" - University of West London

Dr Anke Görzig



A socio-ecological perspective of adolescents' risk and resilience online

Common myth about the internet

- Using the internet is bad for children
- The internet causes more harm to children than the "real world"
- The internet leads to mental health problems and suicide

Responses to internet risks

- Differentiating risk from harm
- Resilience and social inequality
- The role of the wider culture

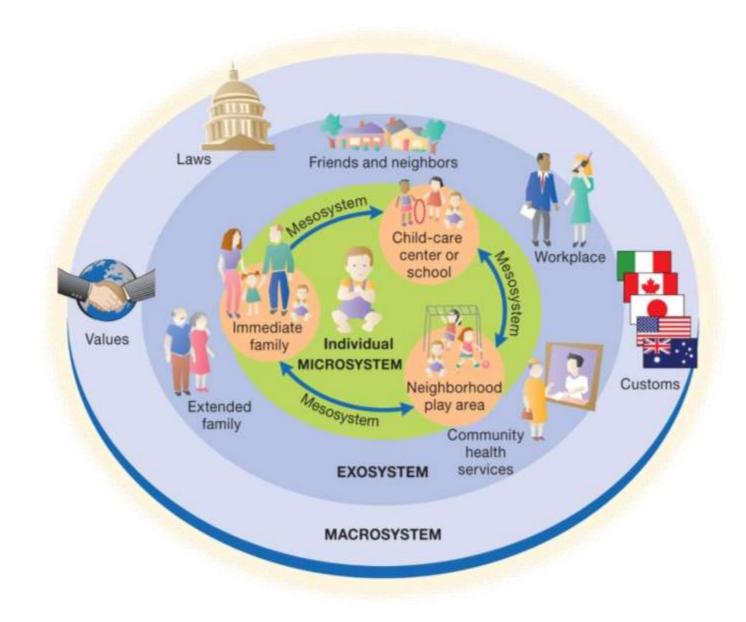


A socio-ecological framework

Ecological systems theory (Bronfenbrenner, 1977, 1979)

Human behaviour

Experience and behaviour of the individual is linked with factors on different levels of the environment





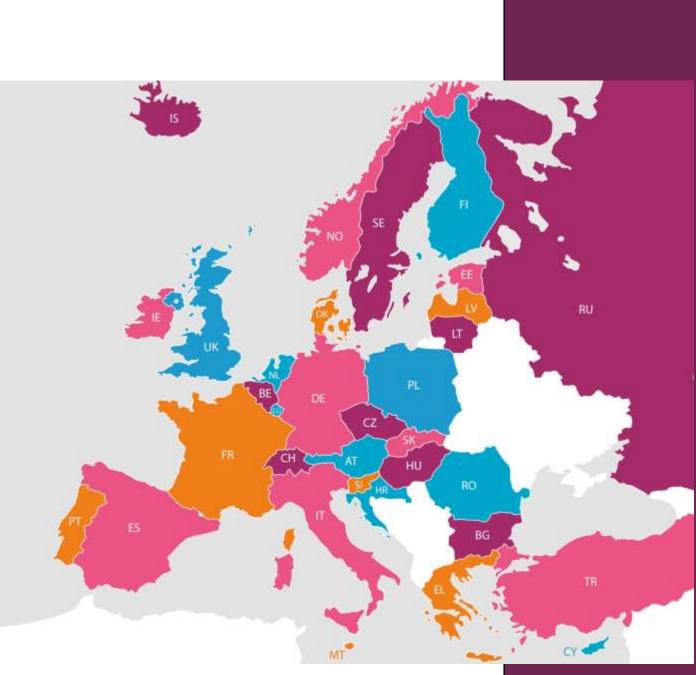
The EU Kids Online network

A multinational research network. It seeks to enhance knowledge of European children's online opportunities, risks and safety.

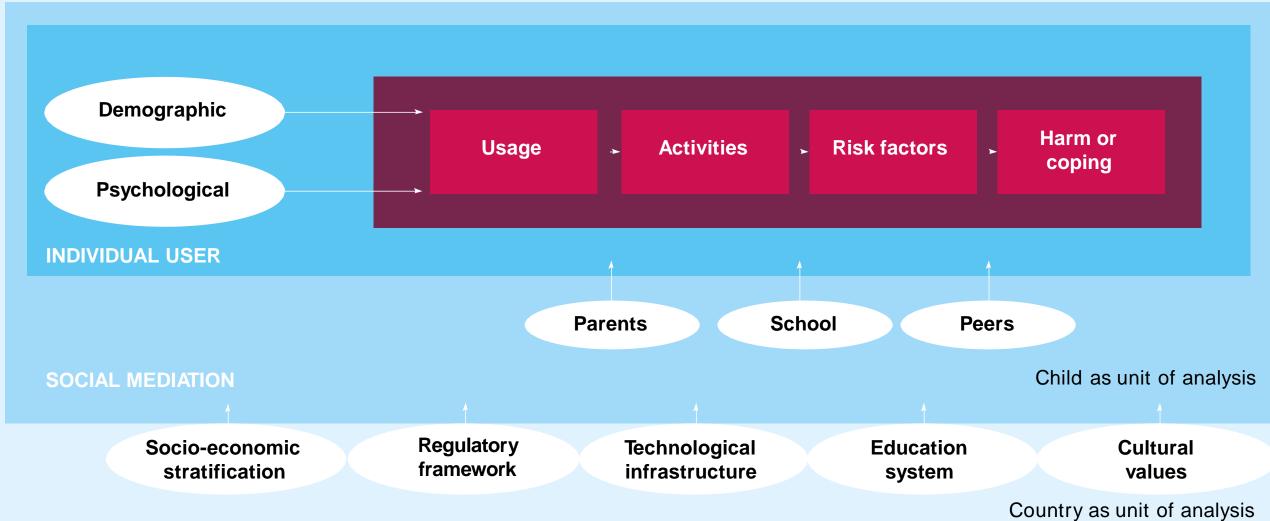
Currently researchers from 33 countries*

For further information see <u>www.eukidsonline.net</u>

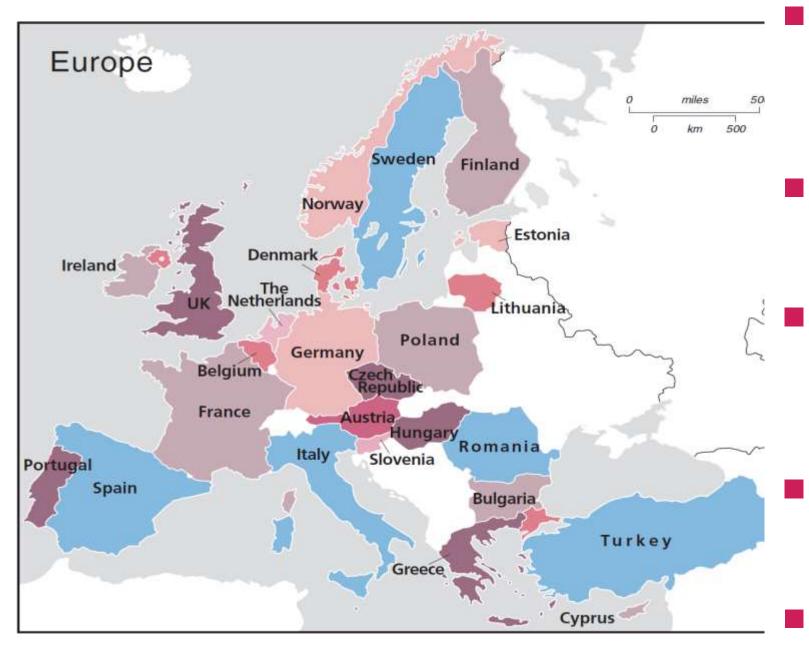
*Austria, Belgium, Bulgaria, Croatia, Cyprus. the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the UK, affiliates in Australia, Brazil and Chile



Explaining risks and opportunities: The EU Kids Online model



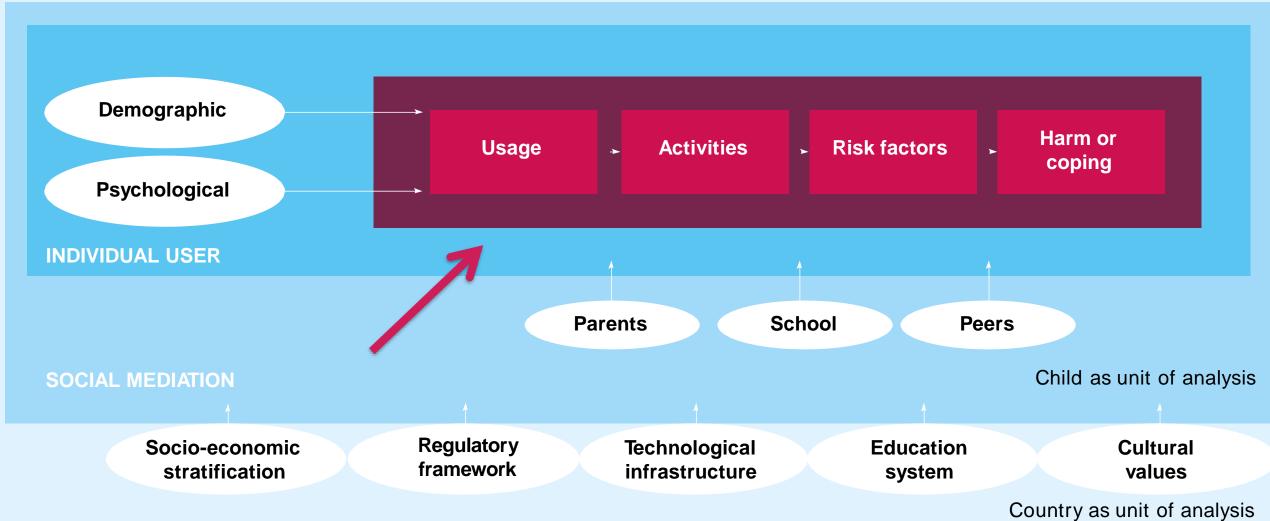
Surveying 'Europe' - EUKO II



- Random stratified sample: ~ 1000 9-16 year old internet users per country; total of 25142 internet-users, 25 countries
- Fieldwork in spring/summer 2010; child + parent interviews at home, face to face
- **Questions validated by cognitive/pilot** testing; self-completion for sensitive questions; care with research ethics
- Informed by national stakeholders and an international advisory panel
- Survey covered access, use, activities, risks (sexual images, sexual messages, bullying, meeting strangers), parental mediation, coping, vulnerability



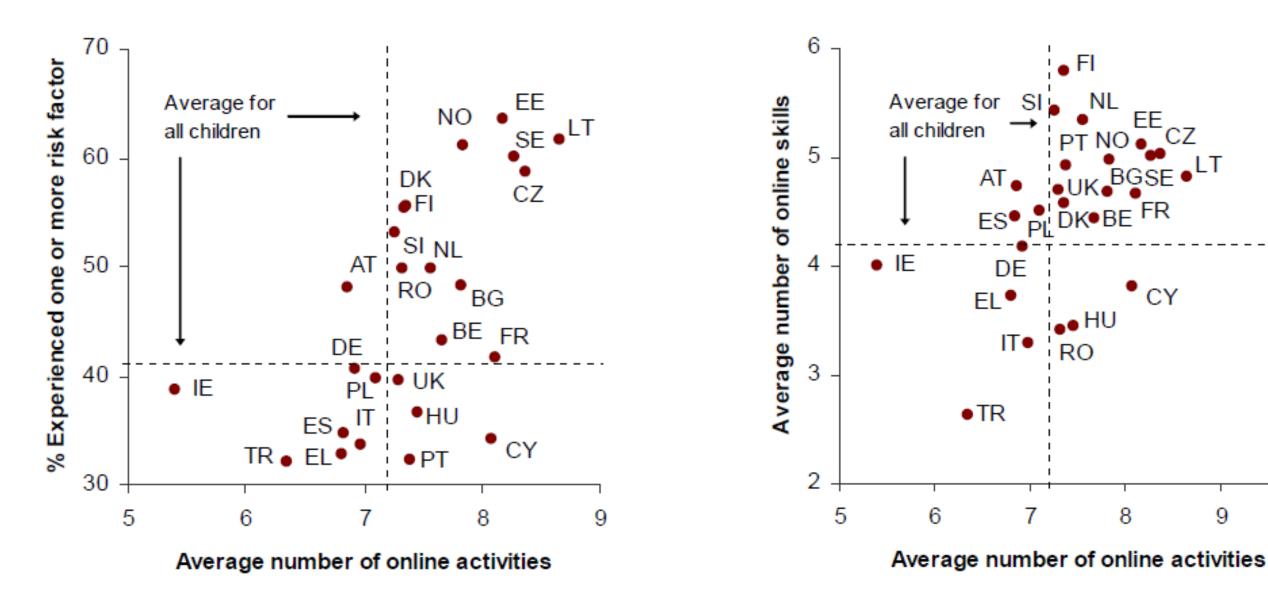
Explaining risks and opportunities: The EU Kids Online model



Is using the internet good or bad?

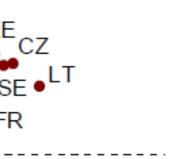
Online activities by online risks

Online activities by online skills



Livingstone, Haddon, Görzig & Ólafsson, 2011









Is the internet more dangerous than the 'real world'?

Internet is 'lawless jungle too dangerous for children to use' (The Independent, 25.8.2014)

Self-harm sites and cyberbullying: the threat to children from web's dark side

(The Guardian, 10.3.2014)

Kids at more risk online than outside school gates (Metro, 30.1.2012)



- Personal and psychosocial characteristics of those who are experiencing risks offline and online are mostly similar (Livingstone & Smith, 2014; Slater et al., 2004)
- Problem Behaviour Theory: A single underlying personality or behavioural factor to account for the range of risks (Donovan & Jessor, 1985; Jessor, 1991)
- Does the concept of a general underlying risk factor also apply to online risk experiences?
- \rightarrow Would such a factor display a joint or separate risk propensity to that of offline risk experiences?





Offline Risks

In the PAST 12 MONTHS, have you done any of these things? (11+ yrs, N = 18,709)

- Had so much alcohol that I got really drunk (8.2%)
- Missed school lessons without my parents knowing (12.6%)
- Had sexual intercourse (5.5%)
- Been in trouble with my teachers for bad behaviour (15.4%)
- Been in trouble with the police (2.9%)

Adapted from Health behaviour in school-aged children (HBSC); see Currie et al., 2008





Online Risks

In the PAST 12 MONTHS...?

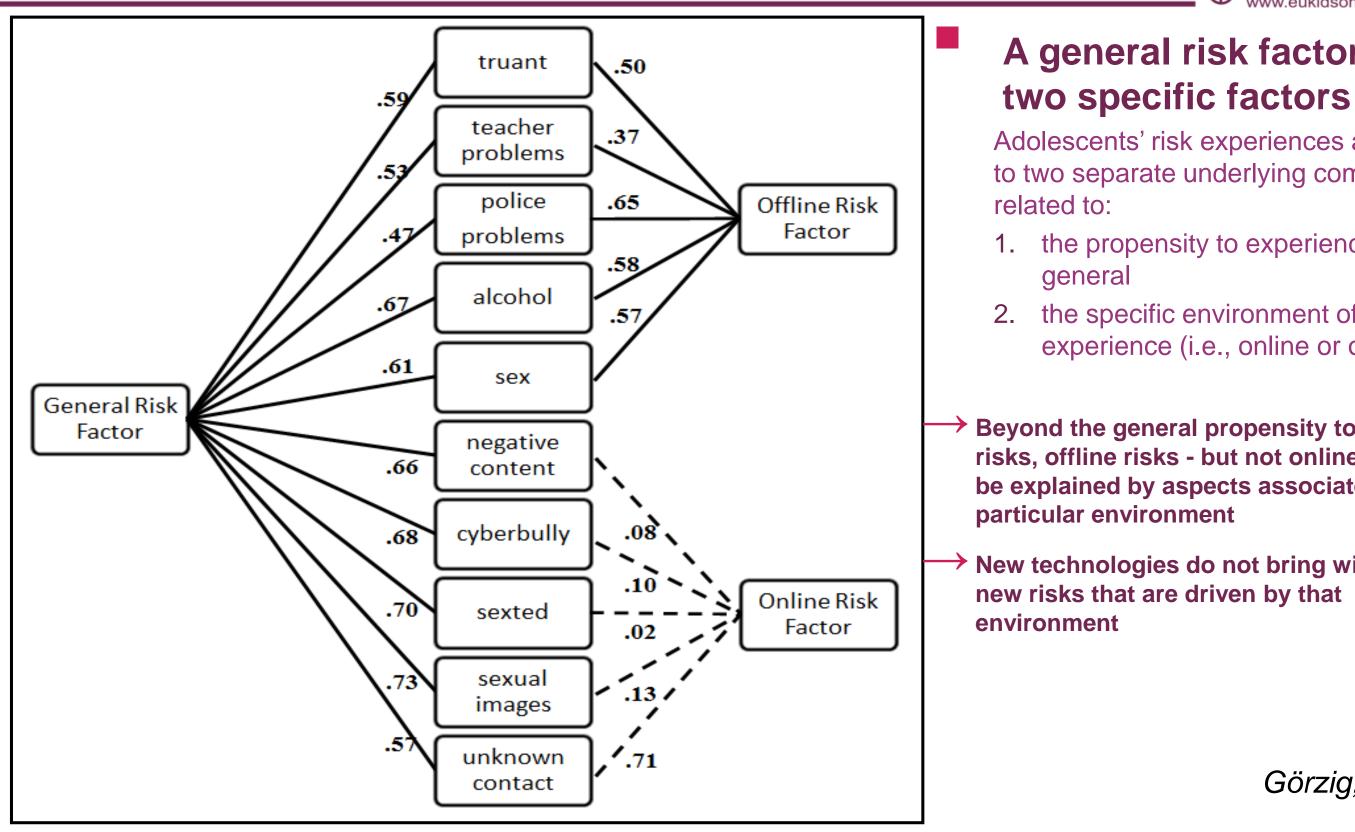
(11 + yrs, N = 18,709)

- Seen sexual images online (16.6%)
- Sent sexual messages online (2.9%)
- Bullied others online (3.2%)
- Made a new contact online (33.5%)
- Seen negative user generated content (21.4%)
 - (i.e., hate messages, content promoting bulimia/anorexia, self-harm or drug use)

see Livingstone, Haddon & Görzig, 2012



A bi-factor model of risks





A general risk factor and

Adolescents' risk experiences are related to two separate underlying components

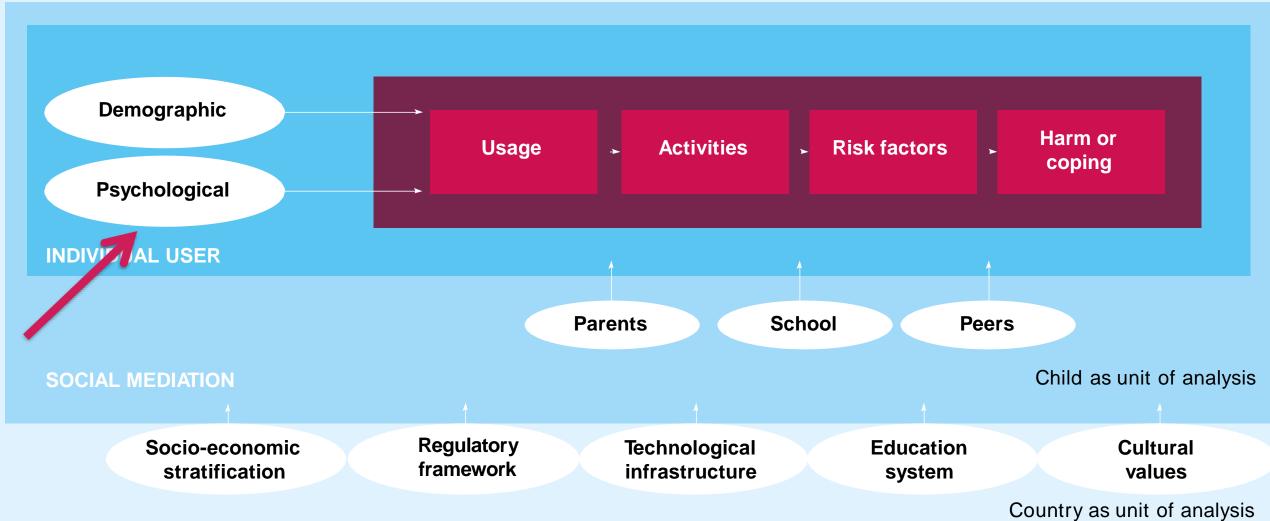
1. the propensity to experience risks in

the specific environment of the risk experience (i.e., online or offline)

Beyond the general propensity to experience risks, offline risks - but not online risks - can be explained by aspects associated with the

New technologies do not bring with them

Explaining risks and opportunities: The EU Kids Online model



Self-harm sites and cyberbullying: the threat to children from web's dark side (The Guardian, 10.3.2014)

Suicide Among Children Is A Bigger Problem Than Ever Before, And Cyberbullying May Be The Cause (Inquisitr, 31.10.2014)

More children 'self-harming because of cyber-bullying' (Metro, 27.5.2014)

DOES THE INTERNET LEAD TO MENTAL HEALTH PROBLEMS AND SUICIDE?



CYBERPSYCHOLOGY, BEHAVIOR, AND SOCIAL NETWORKING Volume 19, Number 8, 2016 Mary Ann Liebert, Inc. DOI: 10.1089/cyber.2015.0419

Adolescents' Viewing of Suicide-Related Web Content and Psychological Problems: Differentiating the Roles of Cyberbullying Involvement

Anke Görzig, PhD^{1,2}

Possible links of cyberbullying with suicide and psychological problems have recently received considerable attention. Suicide-related behaviors have also been linked with viewing of associated web content. Studies on traditional bullying indicate that the roles of bullying involvement (bullies, victims, and bully-victims) matter in terms of associations with specific suicide-related behaviors and psychological problems. Yet, related research in the area of cyberbullying is lacking. The current study investigates the association of cyberbullying roles with viewing of specific suicide-related web content and psychological problems. Data from N=19,406 (50 percent girls) 11–16-year-olds (M=13.54, SD=1.68) of a representative sample of Internet-using children in Europe were analyzed. Self-reports were obtained for cyberbullying role, viewing of web content related to self-harm, and suicide, as well as the emotional, peer, and conduct problem subscales of the Strengths and Difficulties Questionnaire (SDQ). Multinomial logistic regression analyses revealed that compared with those not involved in cyberbullying, viewing of web content related to suicide was higher for cybervictims and cyberbully-victims, but not for cyberbullies. Viewing of web content related to self-harm was higher for all cyberbullying roles, especially for cyberbully-victims. Rates of emotional problems were higher among cybervictims and cyberbully-victims, rates of peer problems were higher for cybervictims, and rates of conduct problems were higher for all cyberbullying roles. Moreover, the links between cyberbullying role and viewing of suicide-related web content were independent of psychological problems. The results can be useful to more precisely target efforts toward the specific problems of each cyberbullying role. The outcomes on viewing of web content also indicate an opportunity to enhance the presence of health service providers on Internet platforms.



Cyber-bullying Involvement Roles

Saying or doing hurtful or nasty things to someone. This can often be quite a few times on different days over a period of time, for example. This can include:

- teasing someone in a way this person does not like —
- hitting, kicking or pushing someone around
- leaving someone out of things

When people are hurtful or nasty to someone in this way, it can happen:

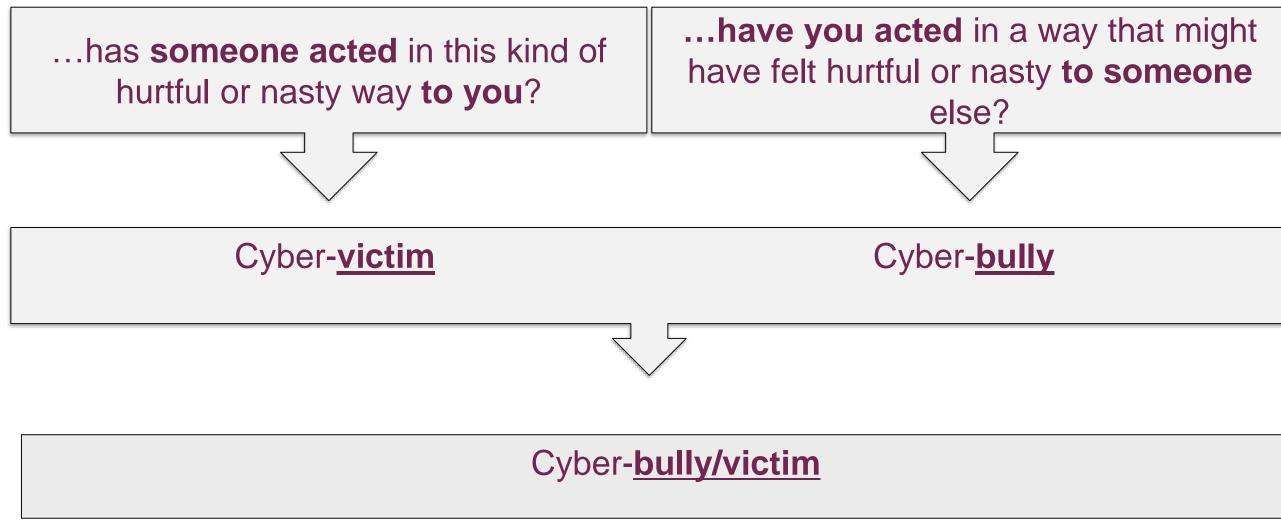
- face to face (in person) —
- by mobile phones (texts, calls, video clips)
- on the internet (e-mail, instant messaging, social networking, chatrooms) _____

cyber-bullying



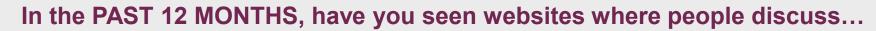
Cyber-bullying Involvement Roles

In the PAST 12 MONTHS...

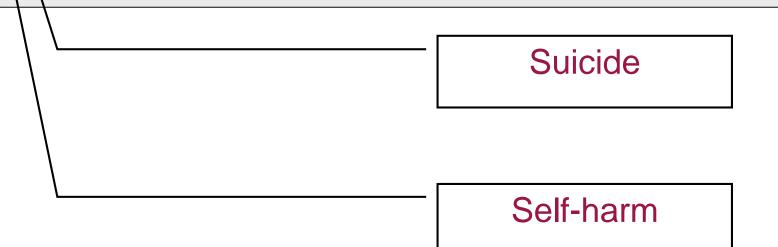




Viewing of suicide-related web-content*

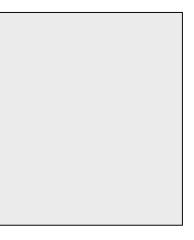


- ways of committing suicide ____
- ways of physically harming or hurting themselves



*(11 + yrs., N = 19,406)





Psychological Problems*

Strengths and difficulties questionnaire (SDQ; Goodman, 1998)

- Emotional difficulties, e.g. "I am often unhappy, sad or tearful." ____
- **Peer problems**, e.g. "Other people my age generally like me." (reversed)
- **Conduct problems**, e.g. "I get very angry and often lose my temper."
 - 5 items each, 3-point scale: (1 = Not true, 2 = A bit true, 3 = Very true)

Borderline clinical cut-off points (Goodman et al., 2000)

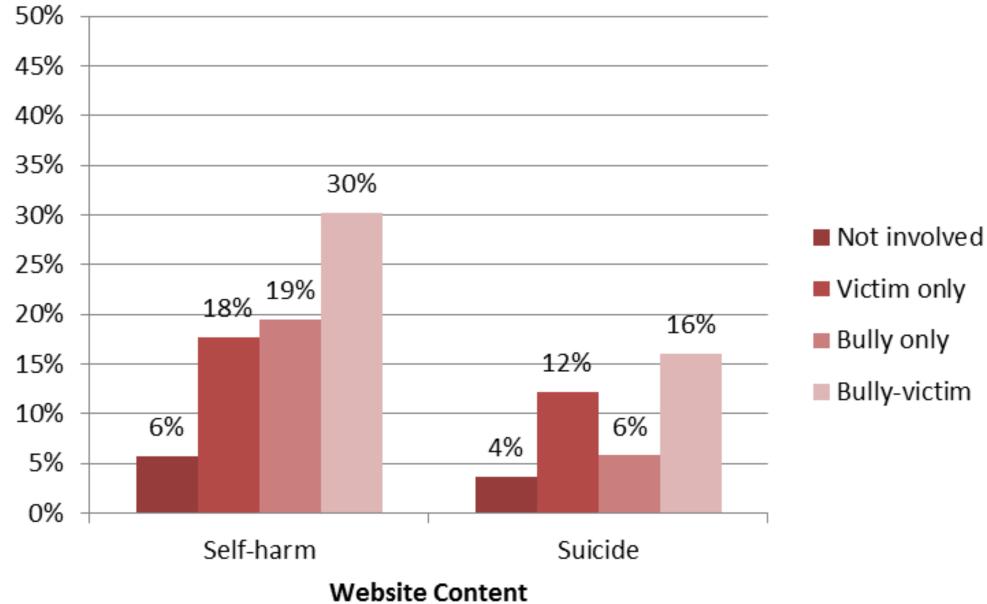
- Used widely for screening in CAMHS (Child & Adolescent Mental Health Services)
 - Emotional difficulties: sum > 6
 - Peer problems: sum > 4
 - Conduct problems: sum > 4



*(11 + yrs., N = 19,406)

Results: suicide-related web-content

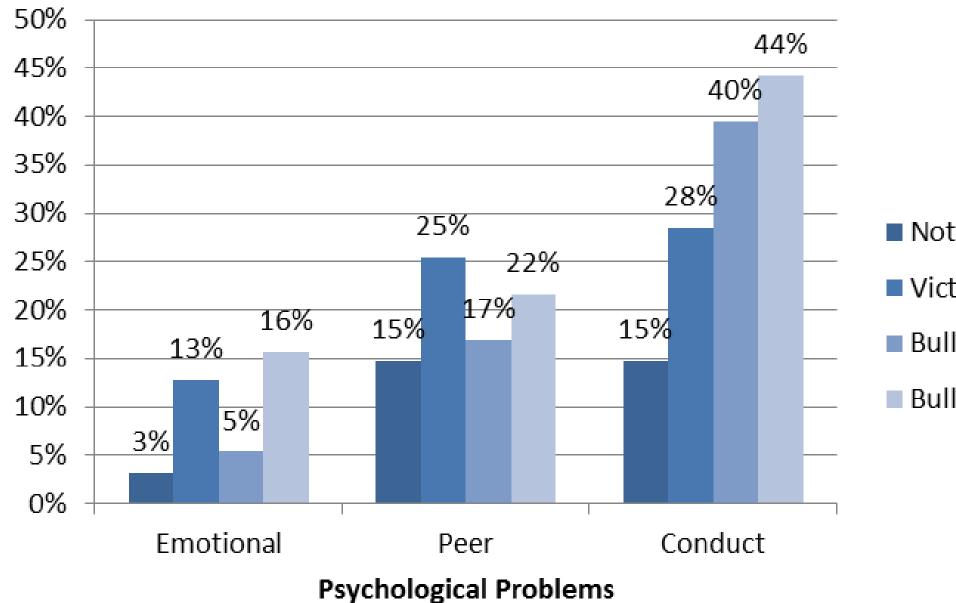
Percentages for Viewing of Suicide-Related Web-Content within Cyber-bullying Involvement Types.





Results: Psychological Problems

Percentages for Psychological Problems within Cyber-bullying Involvement Types.





Not involved

Victim only

Bully only

Bully-victim

Multi-Nominal Regressions: Viewing of Web-Content and Psychological Problems on Cyber-bullying Involvement Type

Regression – Step 1 (viewing of web content only) Odds Ratios (reference group: not involved; controls: age, gender)

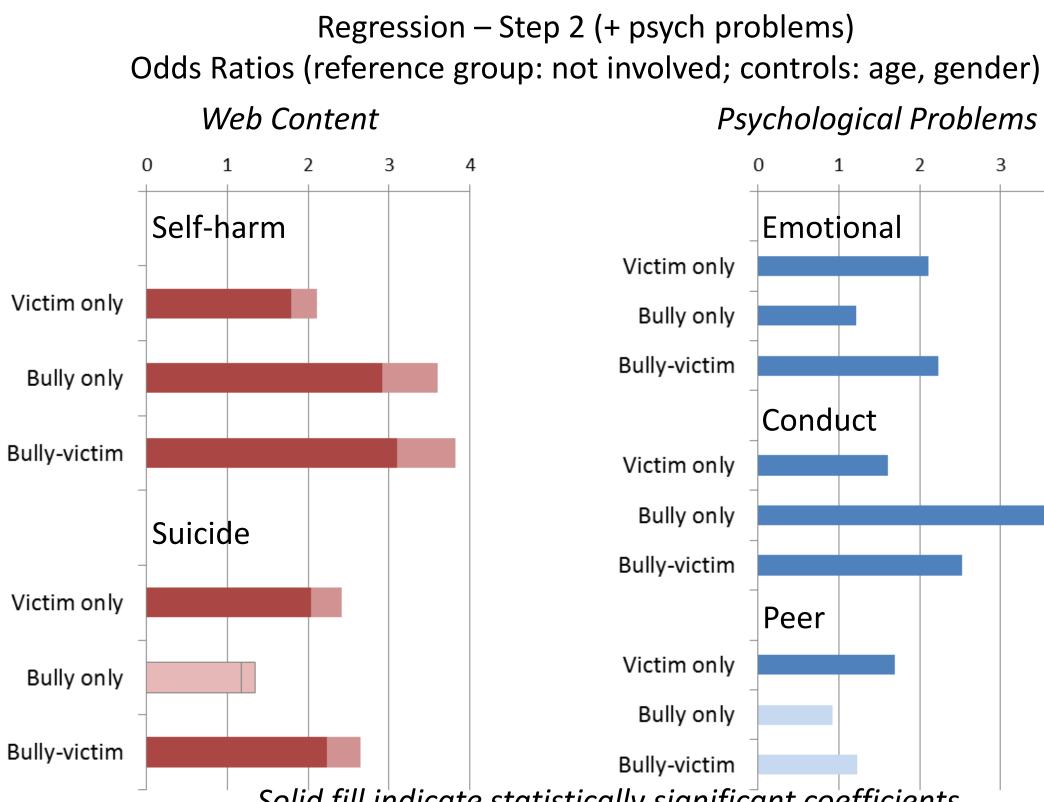


Web Content

Solid fill indicate statistically significant coefficients



Do psychological problems mediate between cyber-bullying type and viewing of suiciderelated web-content?



Solid fill indicate statistically significant coefficients



4

Implications

Suicide-related web content

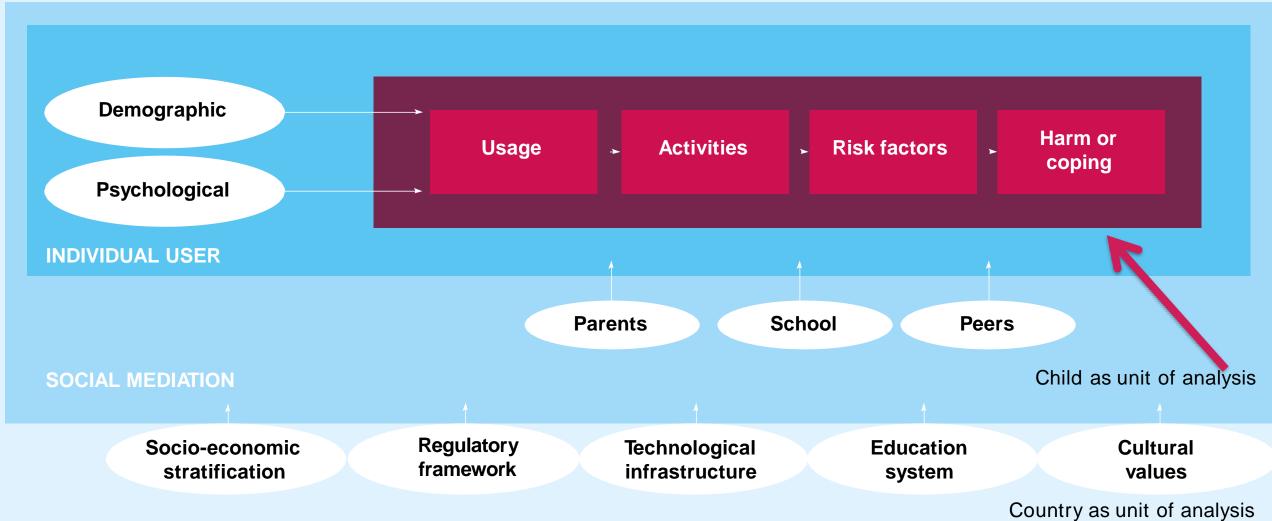
- Cyber-bully/victims most vulnerable
- Generally all involved groups more at risk than not involved —
- <u>Exception</u>: suicide cyber-bullies no higher prevalence than not involved
- **Psychological problems**
 - Cyber-victims: emotional, peer, conduct
 - Cyber-bullies: emotional, conduct
 - Bully/victims: emotional, conduct

Psychological problems mediate between bullying and suicide-related behaviours?

- No change in coefficients when controlling for psychological problems
- Possible bi-directional nature of bullying and psychological problems (Kowalski & Limber, 2013)
- Underlying common risk factor for various risk experiences (Donovan & Jessor, 1985; Jessor, 1991; Görzig, 2016)



Explaining risks and opportunities: The EU Kids Online model



RISK – VULNERABILITY AND RESILIENCE

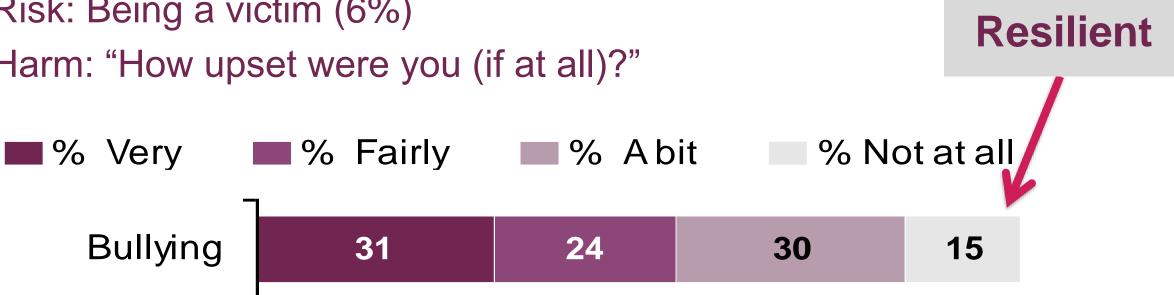
Do internet risks affect everyone and everywhere?



Cyberbullying: Risk and Harm



Cyber-bullying A. Risk: Being a victim (6%) **B.** Harm: "How upset were you (if at all)?"



Görzig & Machackova, 2016; Livingstone & Görzig, 2014



Cyber-bullying Victimisation Vulnerability and Resilience

Görzig & Machackova, 2016	Risk	Harm	Vul Re
Gender	girls	girls	
Internet use (child, parent, country)	higher	lower	Int
Psychological difficulties	higher	higher	Psy di
Sensation seeking	higher	lower	Sensa
Self-efficacy	higher	lower	Se
Social disadvantage (low SES, minority, discriminated)	higher	higher	disa
Restrictive mediation	lower	higher	Less m



Inerability esilience

girls

ternet use

ychological difficulties

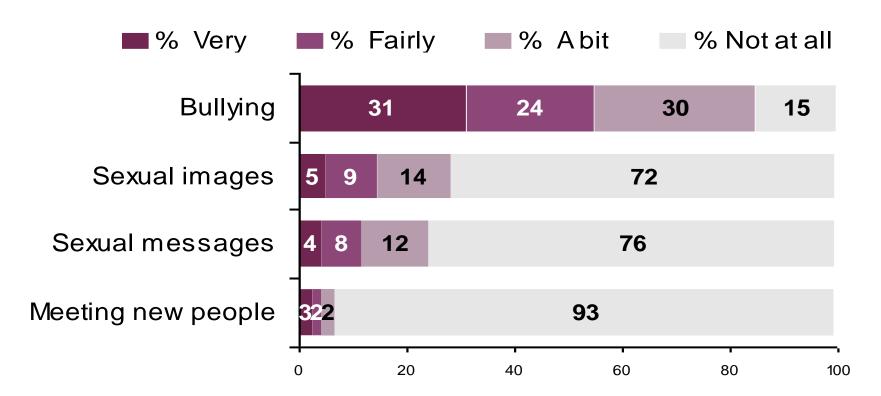
sation seeking

elf-efficacy

Social sadvantage

s restrictive nediation

Harm across risks



More **online risks** are experienced by children who are:

- older, higher in self-efficacy and sensation seeking
- do more online activities
- have more psychological problems

Online risks are found more **harmful and upsetting** by children who are:

- younger, lower in self-efficacy, and sensation seeking
- do fewer online activities, have fewer skills
- have more psychological problems



Livingstone & Görzig, 2014; Livingstone, Görzig & Ólafsson, 2011

Inequalities in risk and resources to cope

Educational/economic disadvantage

- 27% have parents with lower secondary education or less
- 25% have parents who do not use the internet
- 7% of children use the internet less than once per week
- Experience fewer risks but more harm less resilient Build digital skills and resilience given a relative lack of experience of the internet at home

Psychological and social disadvantage

- 34% have more psychological difficulties than most
- 6% of children have a mental, physical or other disability
- 4% of children belong to a discriminated-against group

Experience more risks and more harm.

range of sources of safety information (eg, online sources for parents of disabled children, government sources for parents of discriminated-against children)

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en and online risk

zig and Kjartan Ólafsson

rowards a safer internet for children

& multi-stakeholder context for safety. Since cf then in the vanguant of fast-pasted technological changes, it yeal that the population is resourced to deal with stad safety issues. At international, European and levels, government, industry and third sector sons are working to make the internet safer for The intent is to maximise the benefits of internet use mixing any harms to children, using a mix of co- and self-regulation, and technical tomational support for families.

Providing resources for families. A major policy plank is the provision of resources directly to families - parents and This includes information (on safety, privacy, etc), vial support igliadance and advice, for general use and in sofic cases of difficulty), and technical tools (filtering and Vety software on end-user devices or at the level of the

is in risk and safety. One problem often faced in public policy is that those most in need can be hard to reach". A first sleep is to identify who they are, in relation to the specific challenges of online risks to children. A second n is "the knowledge gap," namely that the more ation and guidance is available, the more it is generally taken up by the information-don rather than the informationpoor. Just making resources available may even increase inequalities. Given inequalities in both risk and safety, it is vital to target resources for those who most need them.

This report

A focus on disadvantage. In this report we compare the risks, and the resources available, to children from specific disadvantaged groups. The analysis draws on the EU Kids Online survey of 25,142 children aged 9-15 who used the nternet across 25 opuraties. The present insent is to guide the better targeting of substy resources in the future. Thus we reveal, trat, inequalities in talk and, second, inequalities in safety, as these affect children across Europe

Varieties of disadvantage. Families offer in many ways and in approaching the analysis, we did not know in advance which kinds of difference would result in disadvantage or nequality. The findings show where knowledge gaps boout. and where they might have been expected but did not occur.

October 2011

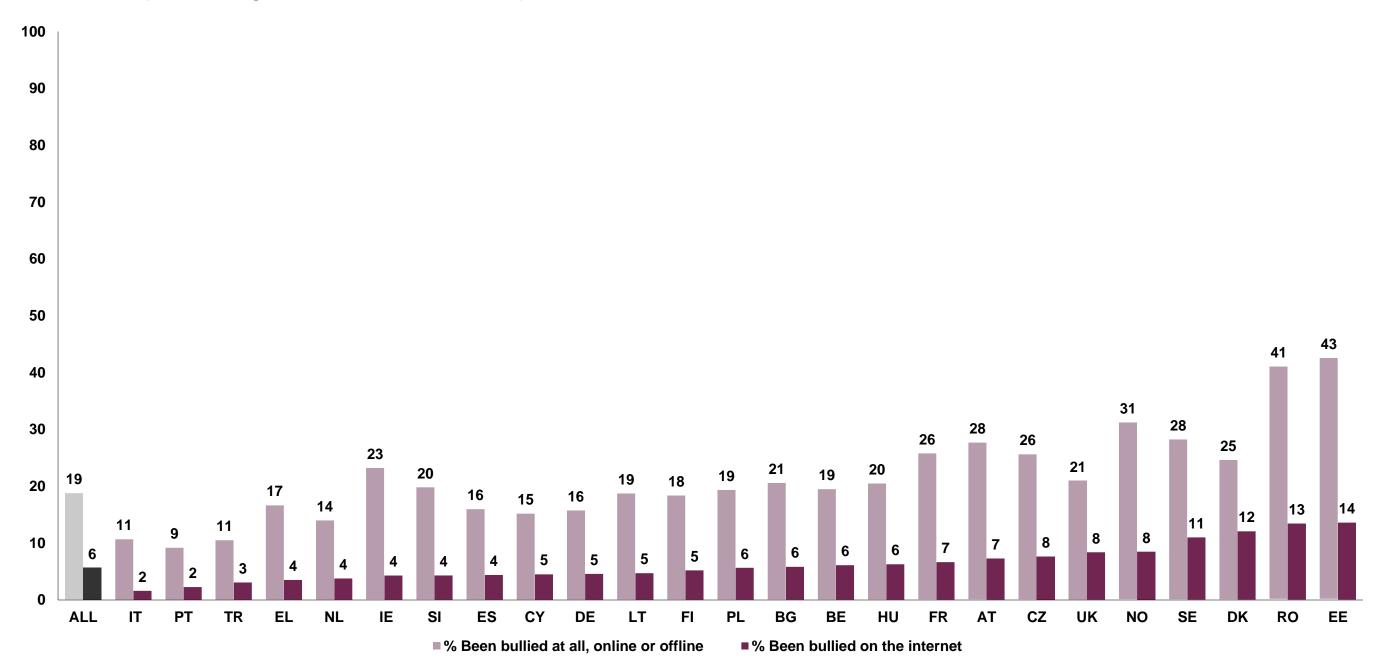
RISK – VULNERABILITY AND RESILIENCE

Do internet risks affect everyone and everywhere?



Cyber-bullying in Context

- Prevalence estimates range from 2% to 14% across 25 countries (Livingstone, Haddon, Görzig & Ólafsson, 2011)
- Country-level explains ca. 7% of variance in cyberbullying prevalence (cf. Görzig & Machackova, 2015)

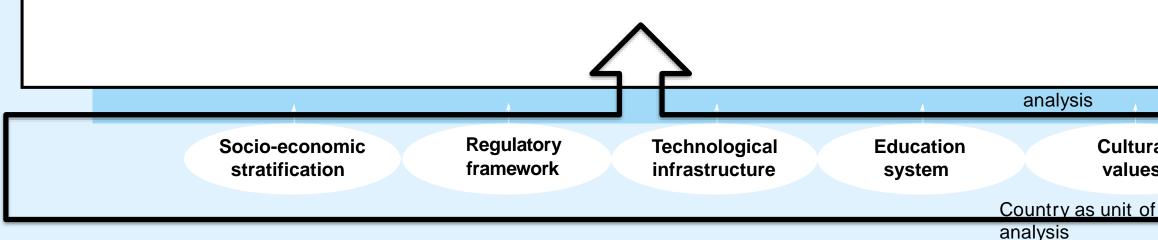


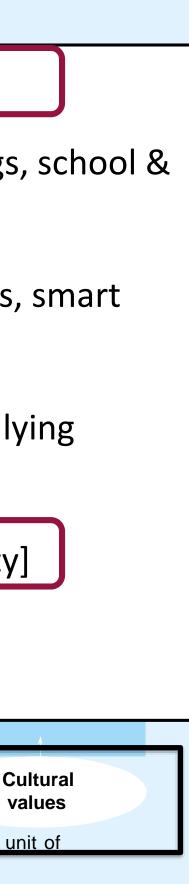


EXPLANATIONS OF CROSS-NATIONAL DIFFERENCES

- **CULTURAL VALUES** [Hofstede, Gelfand, Schwartz etc]
- EDUCATION SYSTEM [levels by age, grade retention, class groupings, school & class size, structure of school day, break times and supervision]
- TECHNOLOGICAL INFRASTRUCTURE [penetration of mobile phones, smart phones and internet]
- REGULATORY FRAMEWORK [school policies, legal aspects, anti-bullying initiatives]

• **SOCIO-ECONOMIC STRATIFICATION** [GDP, socioeconomic inequality]

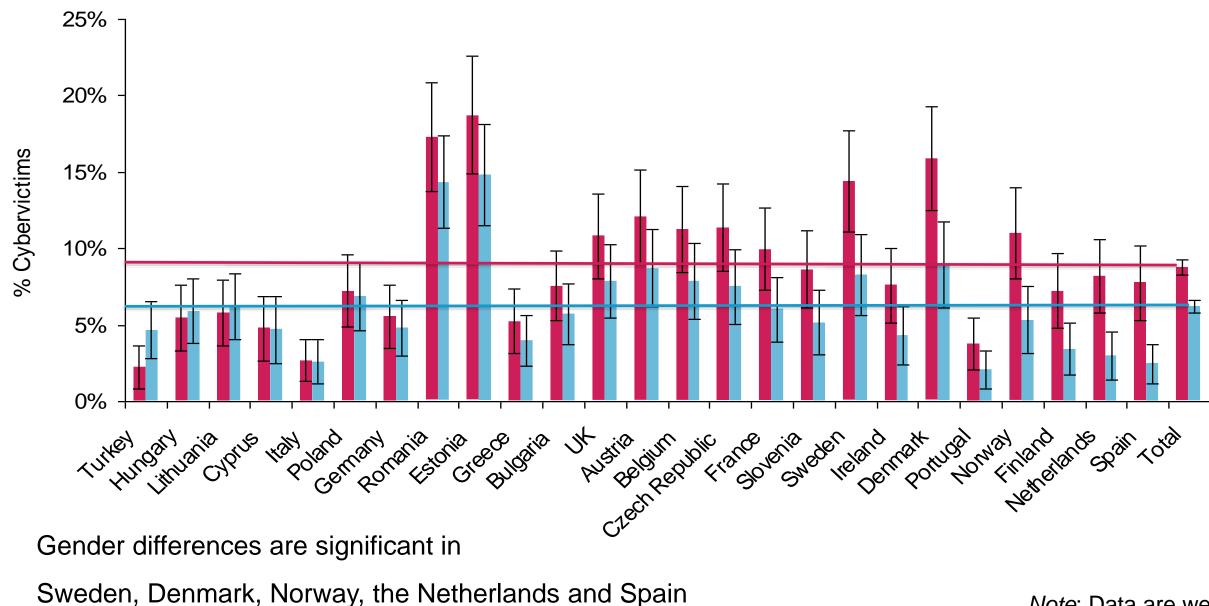




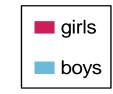
Gender differences by country

Görzig & Machackova, 2016

Cyberbullying victims by country and gender

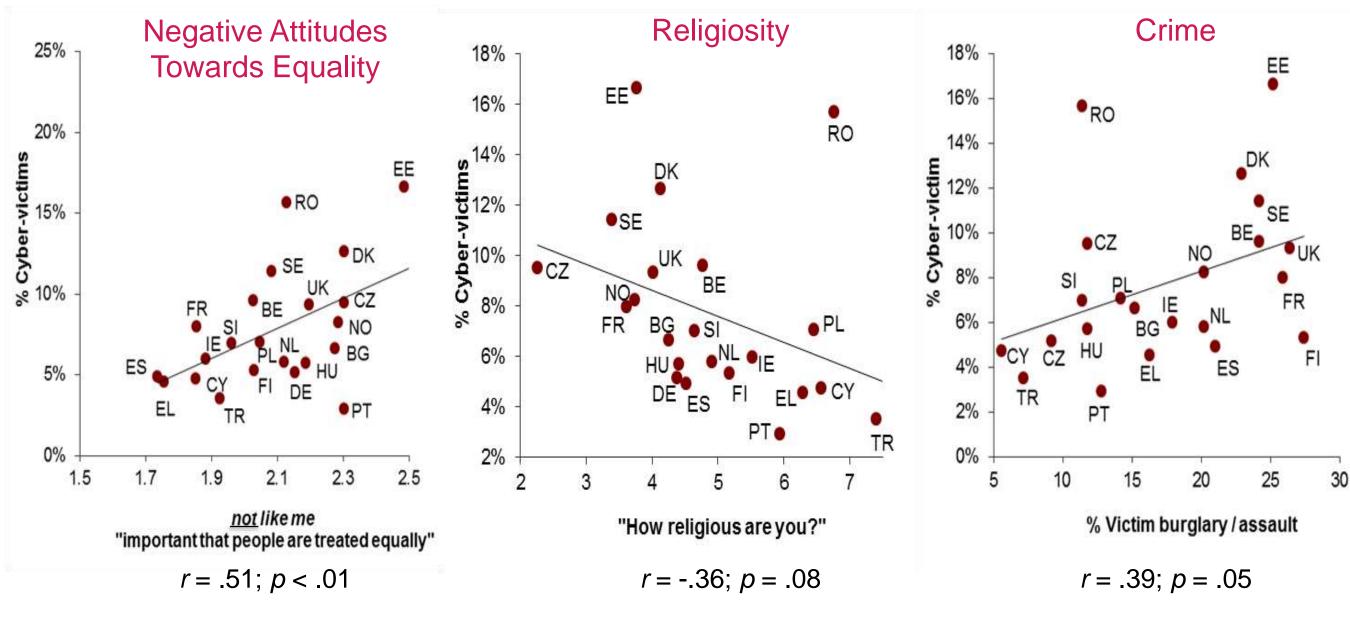






Note: Data are weighted. 34

Cultural level factors



OR = 3.21 OR = 0.84VPC = 4.7%VPC = 4.9%(x2(1)= 5.49; p < .05) (x2(1)= 4.96; p < .05)



OR = 1.03VPC = 5% ($\chi 2(1)$ = 4.57; p < .05) Görzig & Machackova, 2016

Identifying contextual factors: Social inequality

Bullying:

An act of aggression which is intentional, repetitive and directed towards an individual of lower power (cf. Olweus, 1993)

Cyber-bullying:

An act of aggression which is intentional, repetitive and directed towards an individual of lower power using electronic forms of contact, specifically mobile phones or the internet (Smith et al., 2006).

Social Dominance Theory (cf. Pratto, Sidanius, & Levin, 2006)

Power imbalances originates from multiple levels (e.g., cultural policies and practices, individual relations)

Bullying interrelated with power differences within society at large? \rightarrow

Görzig et al., (2017) Journal of Cross-cultural Psychology



Contextual factors linked with social inequality

Economic performance

- Inequality between contexts, i.e. relative wealth

Life expectancy

- Inequality within contexts
- Represents psychological and social differences

Crime rates

Linked with social inequality on neighbourhood to national levels

Population Density (urbanicity)

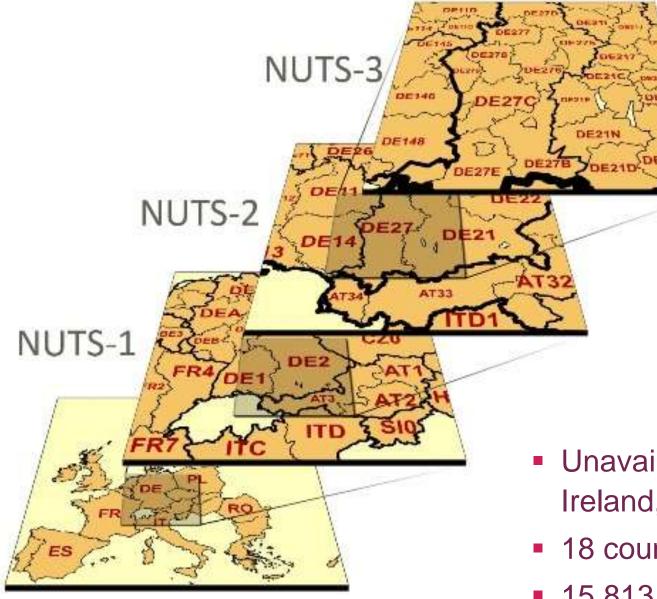
 Increased levels of factors mentioned above (i.e., community violence, poverty and life expectancy)

Görzig et al., (2017) Journal of Cross-cultural Psychology



European Regional Statistics NUTS....

Nomenclature of Territorial Units for Statistics



ESS Round 5 (2010), NUTS 2

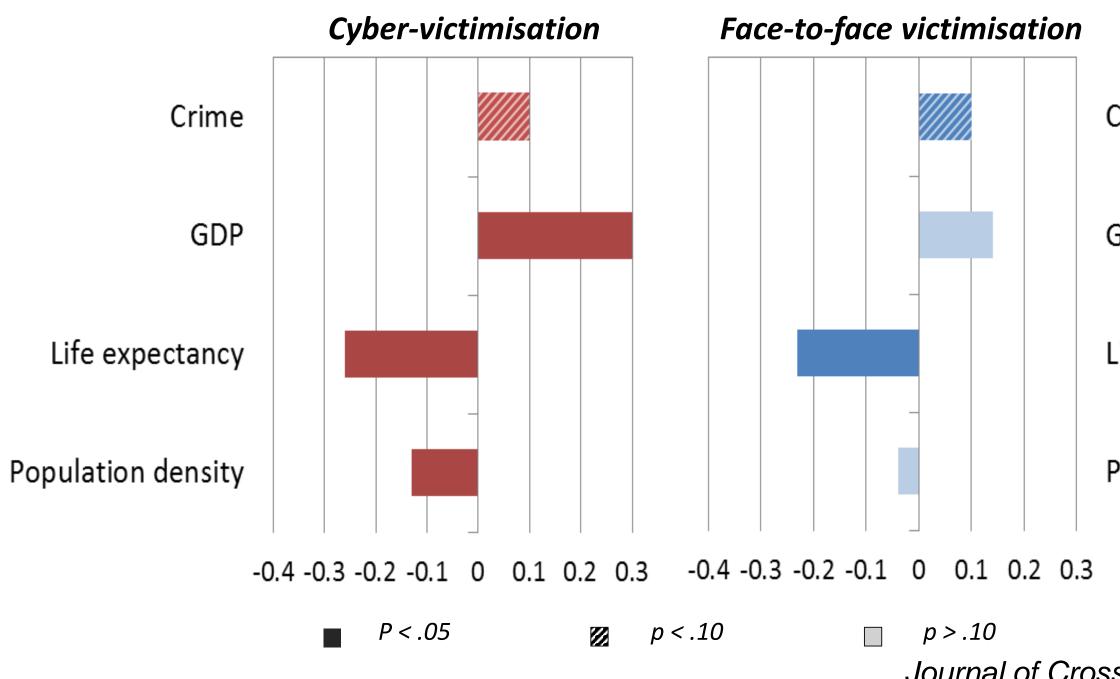
- Italy: 2012, Romania: 2008
- UK: population density, life expectancy (2012), NUTS1
- France: life expectancy (2012)
- Germany: NUTS1
- GDP: Greece, Finland, Romania (2009)

- Unavailable contextual data: Austria, Cyprus, Estonia, Ireland, Lithuania, Slovenia, Turkey
- 18 countries, 179 regions
- 15,813 participants (49.5% female; Age: M = 12.43) years, SD = 2.28)



Socio-economic stratification

Regression – Step 1 (regional predictors only) (Scale: odds Ratios-1; controls: age, gender, SES)





Crime

GDP

Life expectancy

Population density

p > .10 Görzig et al., (2017) Journal of Cross-cultural Psychology

Conclusions: Contextual factors

Crime rates

More crime – more bullying (cyber- and face-to-face)

Economic performance (Inequality between contexts)

- Higher GDP more cyber victims
 - Competitive society? Technology access & use?

Life expectancy (Inequality *within* contexts)

Lower life expectancy – more bullying (cyber- and face-to-face)

Population Density (urbanicity)

- Higher density fewer cyber victims
 - Urban areas: diversity, less stigma? Rural areas: if access, more use?

Social inequality

- Relation between contextual level social inequalities and bullying in general
 - Mixed findings for GDP and population density



Conclusions

- The internet is good and bad: children face risky opportunities (e.g., use and digital literacy / safety skills)
- Children who are at risk online are the same children who are at risk offline
- Children who are involved in cyberbullying are more likely to experience mental health problems and exposure to suicide-related web-content
 - causality is unclear or bidirectional
 - adolescents may search for information or seek support (Daine et al., 2013)
- Predictors of risk are not (always) predictors of harm
- Some risk experiences can lead to resilience for some
- Some children are more vulnerable across risks, offline and online
- Social inequalities on the individual as well as the cultural level impact on risk and coping



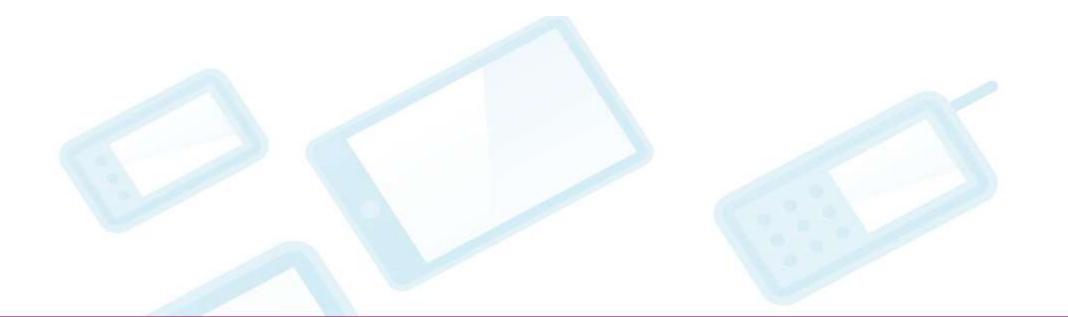
Implications

- Do not discourage children/parents from using the internet
- Increase children's digital skills, coping and resilience
 - address socio-demographic groups differentially
 - Offer online opportunities
- Broader intervention strategies that may address online and offline risks
- Interventions addressing one type of risk experience are likely to positively affect others
- **Online support on websites with suicide-related web-content**
- Policy initiatives should focus on those likely to experience harm:
 - girls, younger children
 - psychological and social disadvantaged

Address social inequality in the wider cultural environment -> a big (t)ask







Thank you! ③

Dr Anke Görzig



Dr Anke Görzig



Literature

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