

CILTER

CHILD PROTECTION SOFTWARE

VigiTrust Advisory Board Presentation



Strictly private and confidential, not for distribution



#SealofExcellence

@EU_H2020 #H2020





Cilter Technologies is developing protective data content filters for smartphones

Our mission is to become the machine-standard parental control.

The Problem

Cyberbullied children are 3 times more likely to attempt suicide

Canadian Study 2017

10% of adolescent children have self-harmed

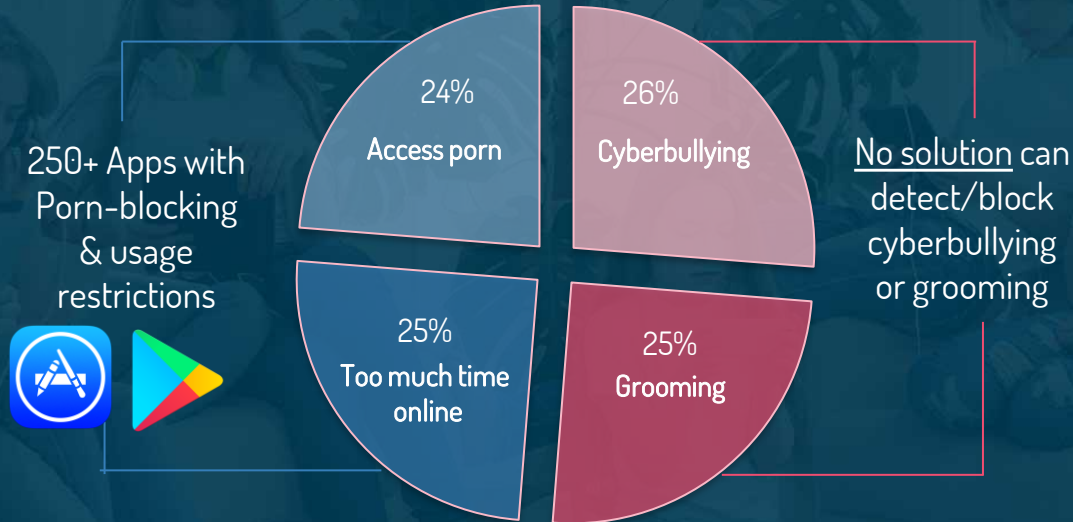
Swedish Study 2019

7% of 12-15yr olds have been involved in grooming

Spanish study 2018

Parents' main concerns when they give their child a smartphone

Webwise (Irish Government) study 2017

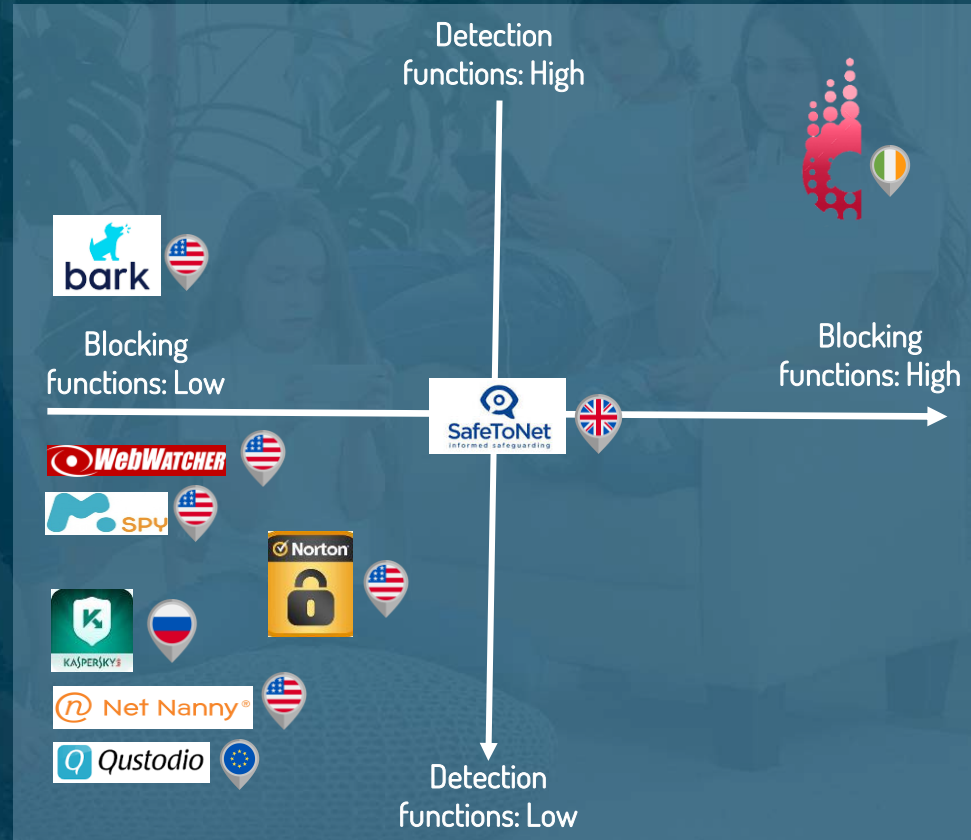
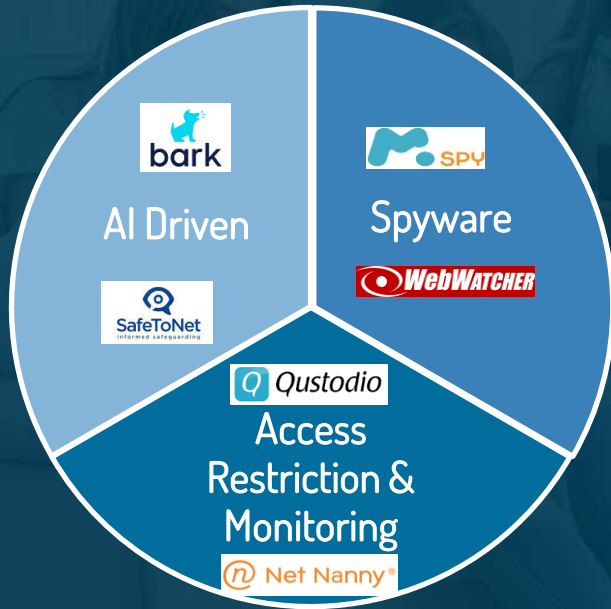


Parents have **no way** to protect their children from cyberbullies or predators

EU Benchmarking of parental controls study Nov 2017 found solutions available are all inadequate

Apps: Cannot block harmful user-generated content

Parental Control apps



Disruptive Solution-NOT an app

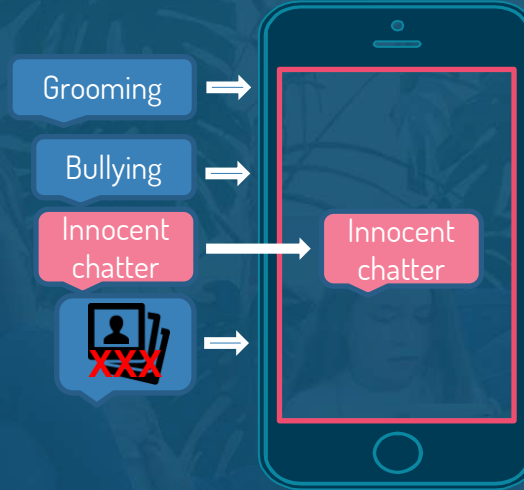
Smartphone Operating System



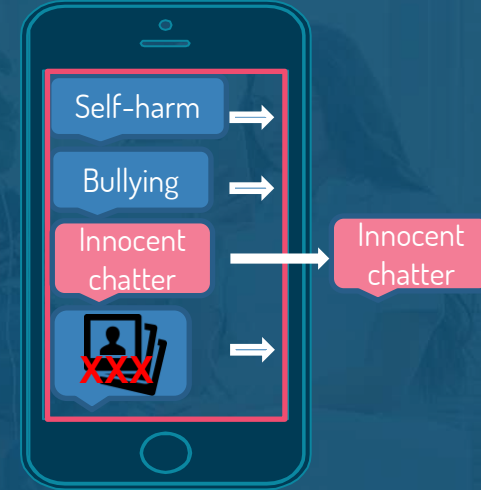
Parental control apps do not have permission to access data in other apps

Built into the OS, Cilter has permission to access data in any app

Blocks harmful incoming content



Blocks harmful outgoing content



Family friendly
Cilter promotes children & parents dealing with harmful content together

Incorporates education through advice & guidance resource for parents & child

Factory-fit and appearing in 'settings' Cilter **cannot be deleted** or tampered with

Parents alerted if child being bullied, groomed or in danger of self-harm

Respects child's need to belong & keeps their online activity private (no spying)

Cilter's unique technology is the **only solution** capable of tackling cyberbullying & grooming

Our tech - 3 components

Filter: Cilter is an OS modification that can be applied at point of manufacture (OEM's) or OTA via Google AOSP. Technological advancement far beyond the SOA.

"While our large Telco customers have supported app-based parental control solutions, thereby demonstrating there is a clear appetite among consumers for child-protection products, we were intrigued by Cilter's unique OS embedded approach that could not be deleted..App technologies are limited to monitoring and URL blocking...while Cilter's solution can see inside even encrypted messages making it an exciting new technological solution" Derek Collins, Huawei

AI: Cilter databases of harmful content will continually improve detection capabilities with applied machine learning algorithms processing natural language & images

"[Cilter's] development of a database of offender-victim grooming language and analysis of grooming patterns has the potential to assist law enforcement improve detection capabilities, the online industry to better identify and manage grooming accounts, regulators and policymakers to develop better ways to protect children online" Dr. Maggie Brennan, University of Plymouth

Support: CyberSafeKids advice and resources

"Cilter is the best solution I have seen thus far because it is designed to make the most of technology while also requiring parents to enter into conversation with their child in order to make the best decision possible to tackle/prevent cyberbullying and online dangers. As far as I am aware, no other solution can detect or block user-generated cyberbullying messages in the same way." Prof. James O'Higgins Norman, UNESCO Chair for the prevention of bullying in Schools & Cyberspace



Mandatory parental controls – drive awareness/increase protection

50% of parents use parental controls

Spyware invades child's privacy and erodes trust

Empowering them by giving them some control of their own safety creates safer digital citizens



Access restriction drives children to secret internet use



We must teach children about online safety in the same way we do about 'real-world' dangers

Collaboration and communication reduces conflict around internet use

Impact of inaction

Research e.g 10% of adolescents have self-harmed

Increased demands on stretched mental health services = costs to state

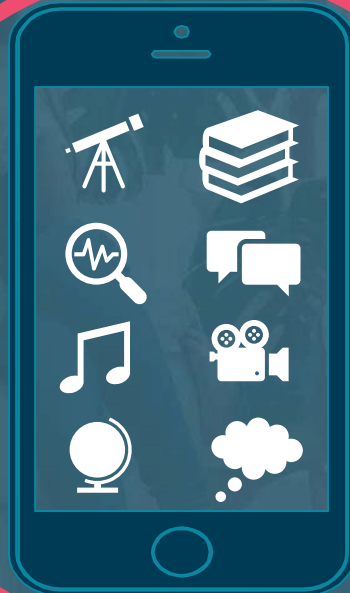


27% increase in cyberbullying since Covid restrictions

Increase in online child abuse

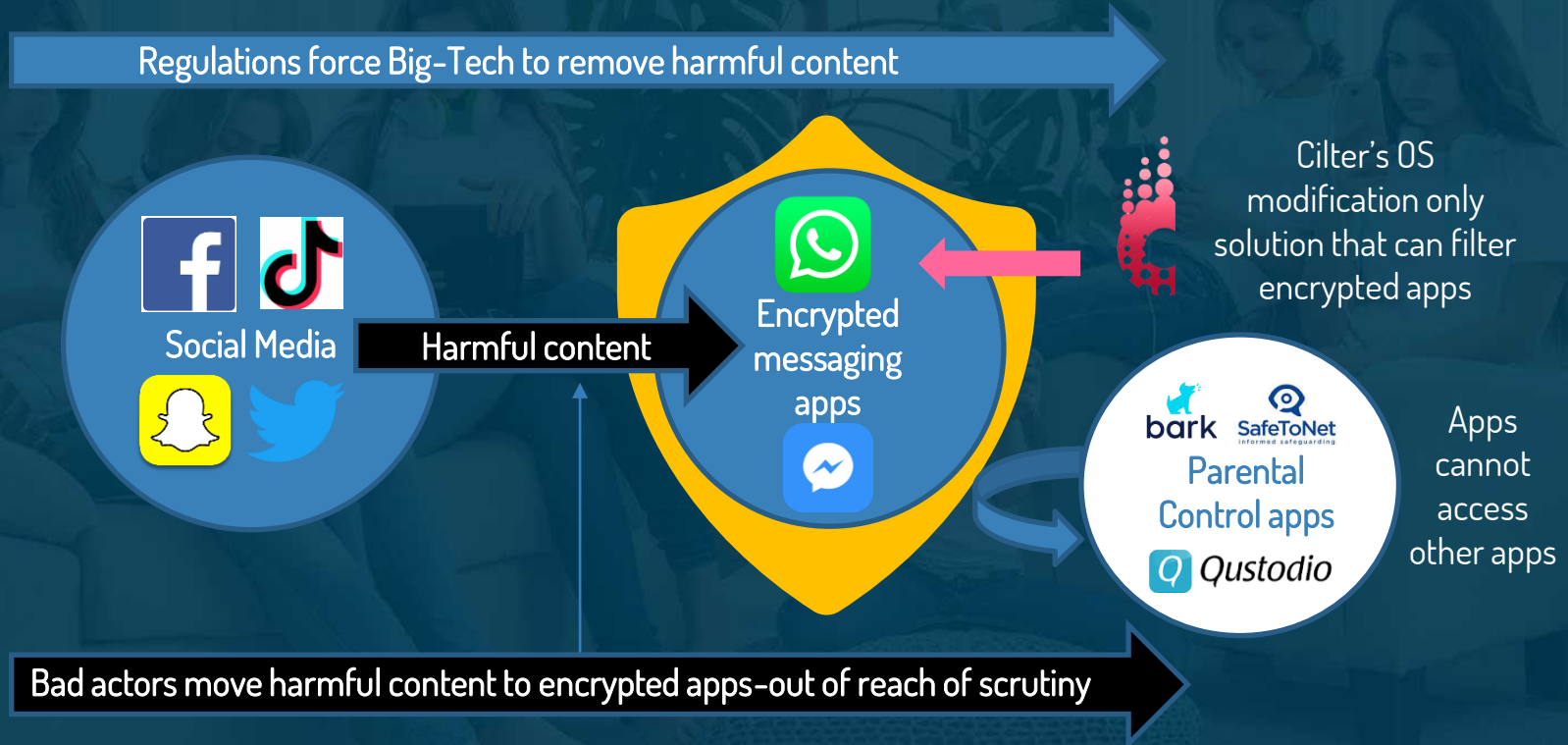
9 month average delay from reporting to prosecution

Is data privacy more important than child-protection?



Legislation driving demand for Cilter solution

Cilter: Technological last line of defence



Covid has made the problem even worse



The EU has become the largest host of child sexual abuse material globally

The number of child sexual abuse reports globally quadrupled in April 2020 (4.1 million reports) compared to April 2019 (around 1 million)

EU Strategy for a more effective fight against child sexual abuse (July 2020)

EU plans to step up fight against child sex abuse online

EURACTIV.com with AFP

8 Jun 2020



“The Commission has launched an expert process to map and preliminarily assess, by the end of 2020, possible technical solutions to detect and report child sexual abuse in end-to-end encrypted electronic communications, and to address regulatory and operational challenges in the fight against these crimes.”

What needs to happen to create a safe online space for children

Right now



Unheated debate and agreement balancing data privacy and child-protection



Mandatory parental controls on all children's devices – because all children deserve to be protected and not just those with concerned parents



Standards set for protecting children's data that also allow for filtering because data analysis can be done for good.

Wish-list



Bake the child's age into the device and link it to their browser and app stores – blocking access or download of age-inappropriate apps and websites



Assign an individual ID number to every internet user.