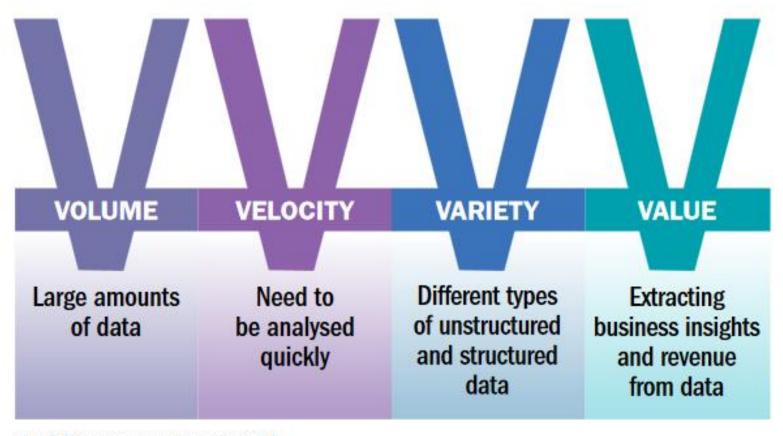
EXPLOITING BIG DATA IN THE MEDIA

Lucia D'Acunto, TNO





WHAT IS BIG DATA



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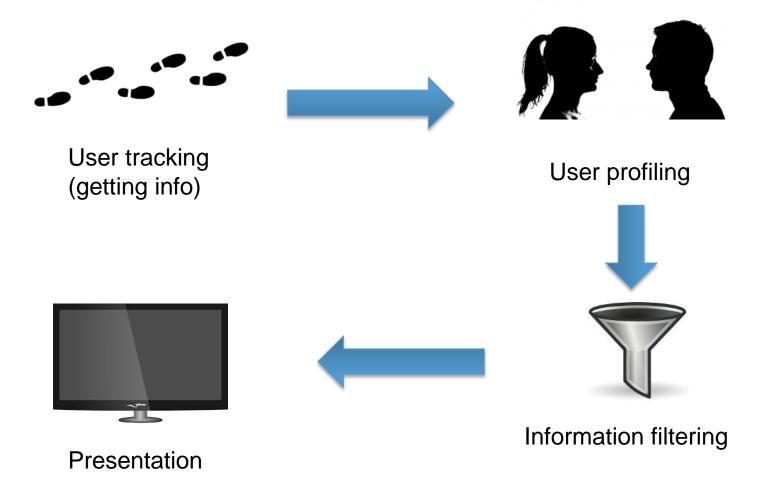


WHAT IS BIG DATA USED FOR





HOW DOES IT WORK?





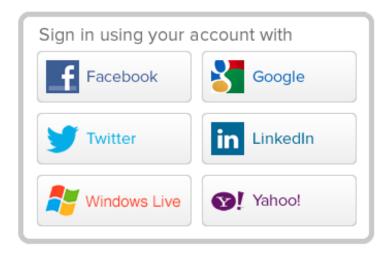
TRACKING USERS ON THE INTERNET – LOGIN



One account. All of Google.

Sign in to continue to Gmail

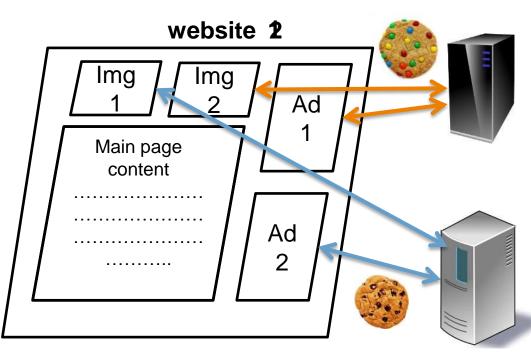






TRACKING USERS ON THE INTERNET - COOKIES







TRACKING USERS ON THE INTERNET - BROWSER FINGERPRINT Panopticlick

How Unique - and Trackable - Is Your Browser?

Your browser fingerprint appears to be unique among the 6,194,002 tested so far.

Currently, we estimate that your browser has a fingerprint that conveys at least 22.56 bits of identifying information.

The measurements we used to obtain this result are listed below. You can read more about our methodology, statistical results, and some defenses against fingerprinting in this article.

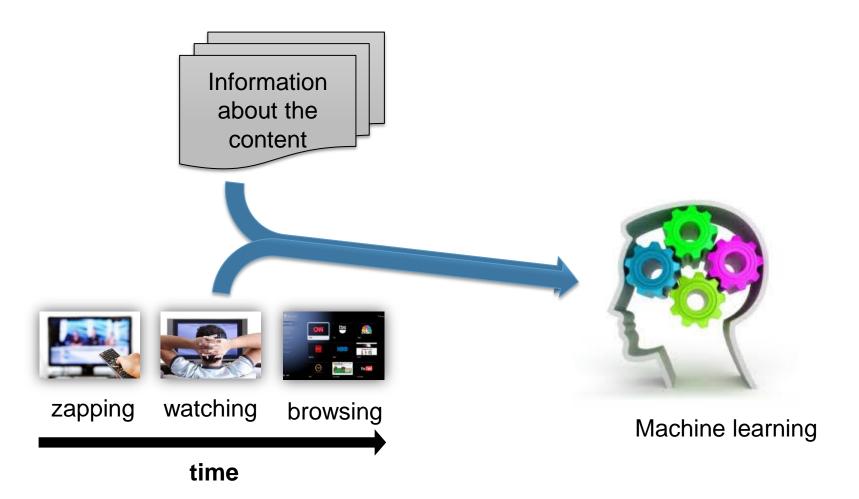
Help us increase our sample size: 🖾 😭 🚳 🚅 🖺 🧲 🔷

Browser Characteristic	bits of identifying information	one in x browsers have this value	value
User Agent	11.13	2236.91	Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/43.0.2357.130 Safani/537.36
HTTP_ACCEPT Headers	5.57	47.49	text/html, "/" gzip, deflate en-US,en;q=0.8
Browser Plugin Details	12.63	6352.82	Plugin 0: Chrome PDF Viewer; ; mhjfbmdgcfjbbpaeojofohoefgiehjai; (; application/pdf; pdf). Plugin 1: Chrome PDF Viewer; Portable Document Format; internal-pdf-viewer; (Portable Document Format; internal-pdf-viewer; (Portable Document Format; application/x-google-chrome-pdf; pdf). Plugin 2: Chrome Remote Desktop Viewer; This plugin allows you to securely access other computers that have been shared with you. To use this plugin you must first install the chrome Remote Desktop Xio >> webapp.; internal-remoting-viewer; (; application/vnd.chromium.remoting-viewer;). Plugin 3: Native Client; ; internal-nacl-plugin; (Native Client Executable; application/x-nacl;) (Portable Native Client Executable; application/x-pnacl;). Plugin 4: Shockwave Flash; Shockwave Flash 18.0 n0; pepflashplayer.dll; (Shockwave Flash; application/x-shockwave-flash; swf) (Shockwave Flash; application/futuresplash; spl). Plugin 5: Widevine Content Decryption Module; Enables Widevine licenses for playback of HTML audio/video content. (version: 1.4.8.823); widevineodmadapter.dll; (Widevine Content Decryption Module; application/x-ppapi-widevine-odm;).
Time Zone	2.66	6.32	-00
Screen Size			

https://panopticlick.eff.org/

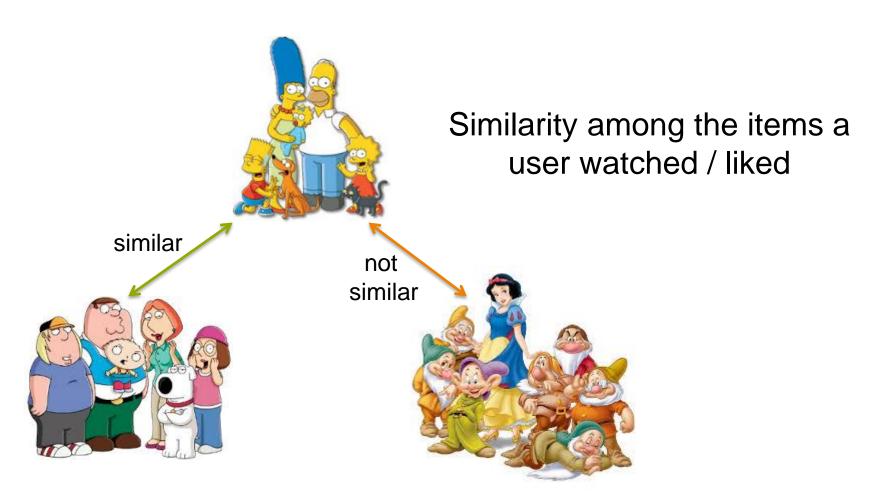


USER PROFILING

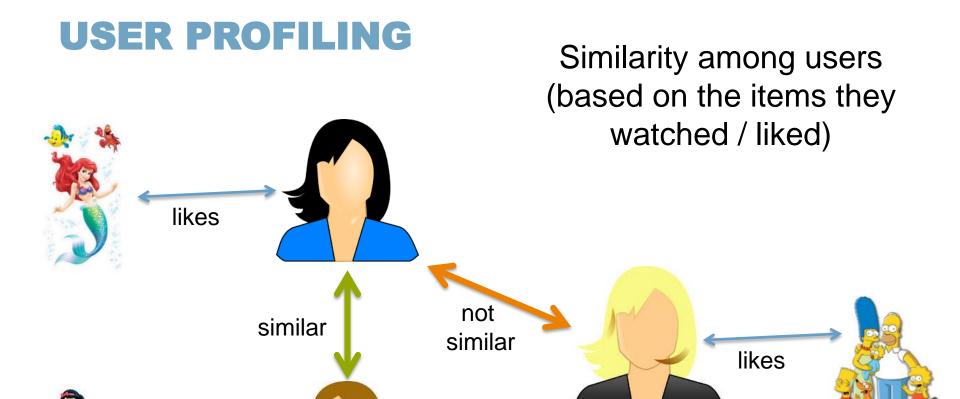




USER PROFILING



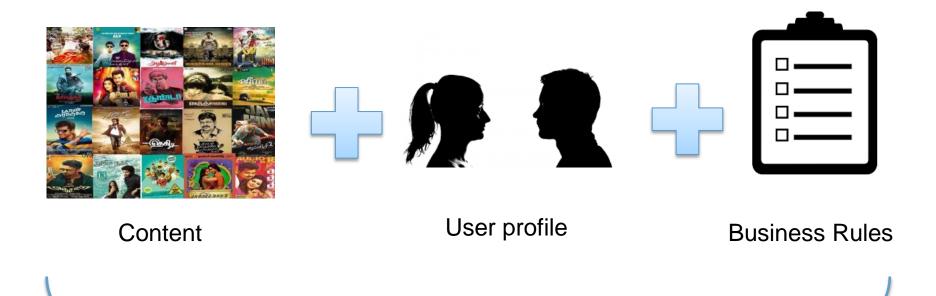




likes



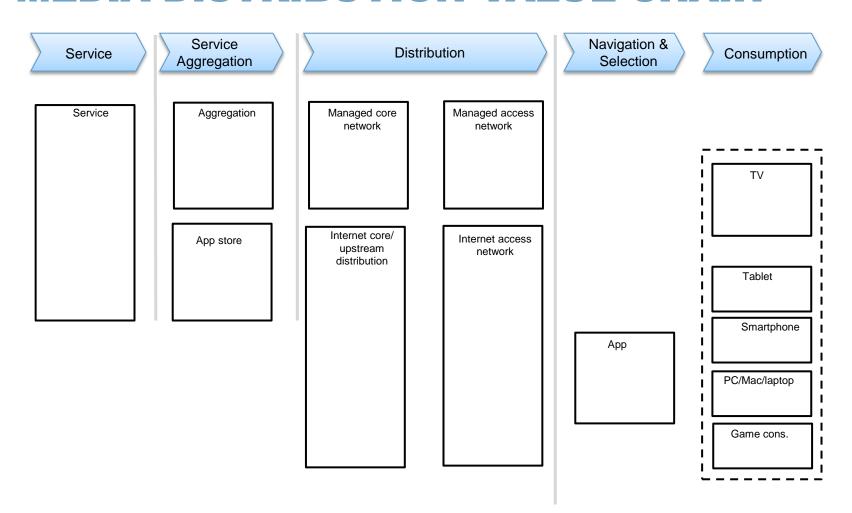
FILTERING



Content to present to the user

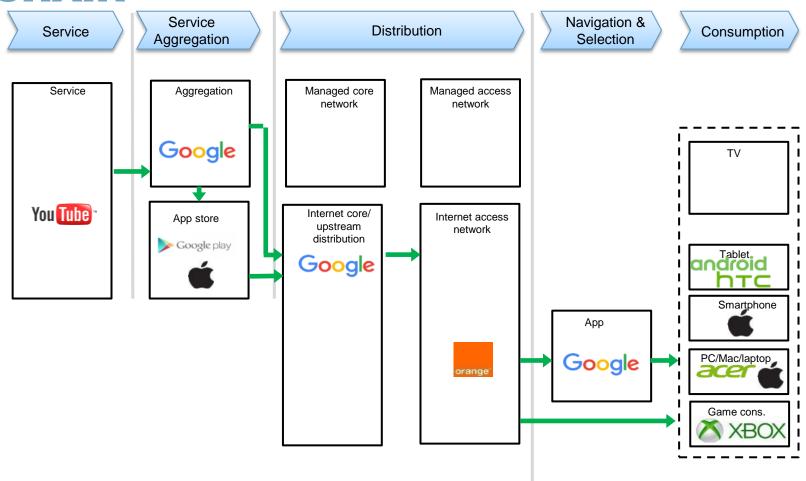


MEDIA DISTRIBUTION VALUE CHAIN



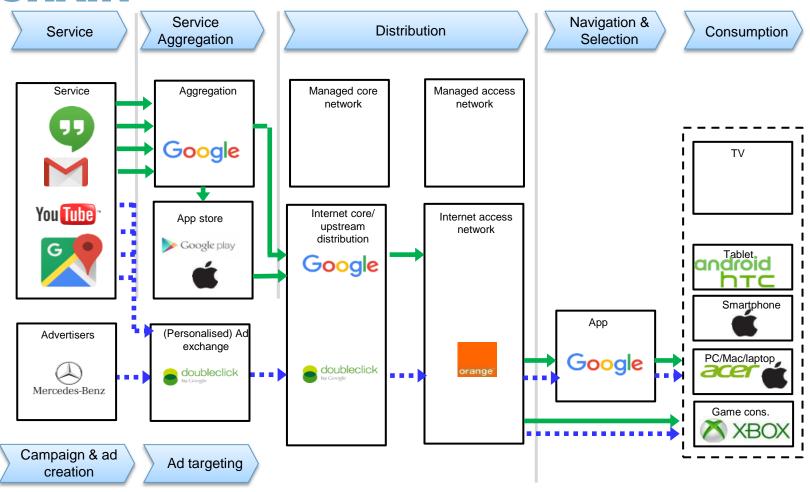


YOUTUBE VIDEO DISTRIBUTION VALUE CHAIN





YOUTUBE VIDEO ADVERTISING VALUE CHAIN



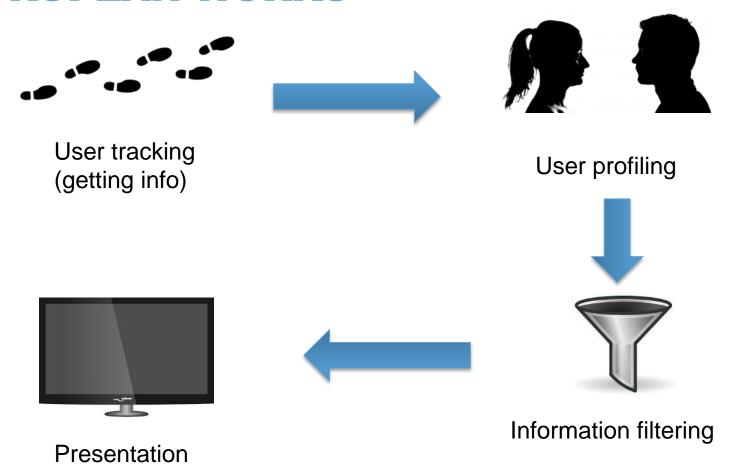
THANK YOU FOR YOUR ATTENTION

Lucia D'Acunto, lucia.dacunto@tno.nl



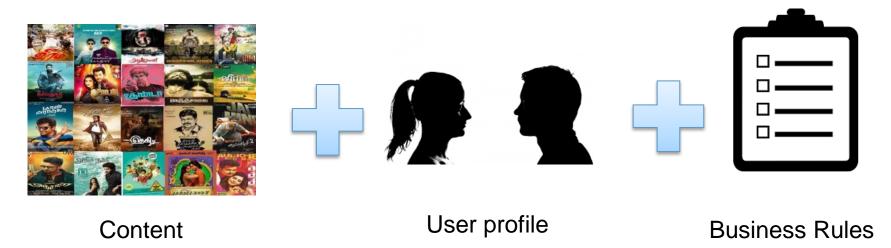


ALGORITHMS AND PROMINENCE OF EUROPEAN WORKS





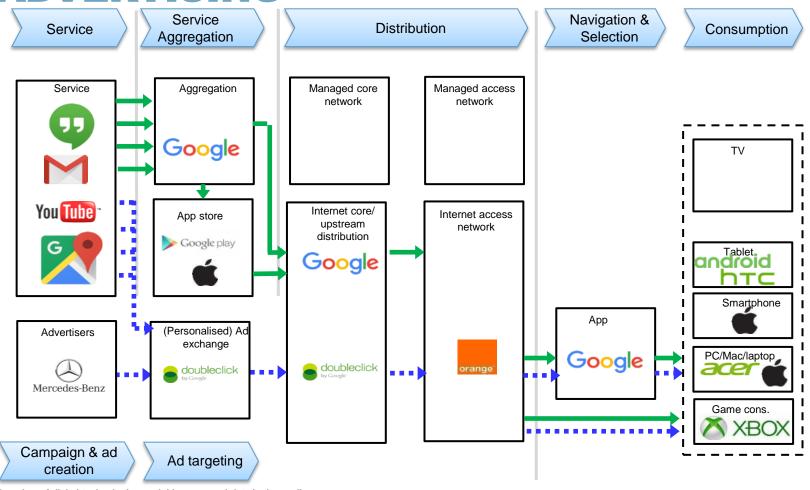
BIG DATA AND PLURALISM OF INFORMATION



Content to present to the user



PROFILING AND TARGETED ADVERTISING



Overview of digital technologies exploiting personal data in the media