

/ However...creating data deluge







VIRTUAL REALITY



SECOND SCREEN (TV AND SOCIAL)



SOCIAL -LOCAL - MOBILE

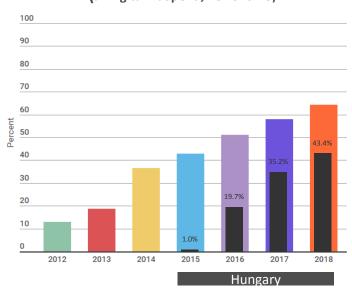




/ Programmatic - overtakes digital AdSpend

State of Programmatic: Global & Hungary

(% Digital AdSpend; FC 2016-18)



Dentsu Aegis CEO Jerry Buhlmann: "Eventually, Everything Will Become Programmatic" approaching 100% programmatic by 2020.

Karl Bunch, Xaxis, VP of global product development declared:

"...by 2020 if you don't have [...] systems you are building to buy media, then you will not even be at the table stakes..."

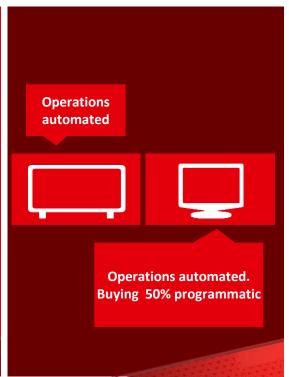




/ 2020: Efficiencies through automation











Pace of programmatic adoption by channel

