



ورشة عمل بشان تحديث الإحصاءات الرسمية في دولة قطر Workshop on Modernization of Official Statistics in Qatar

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Social Media and Drone Imagery Non-Traditional Data Sources for Augmenting Official Statistics

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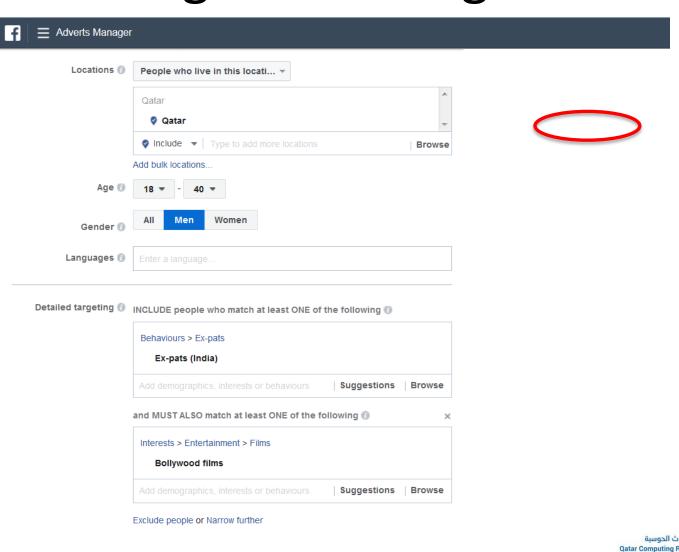


SOCIAL MEDIA ADVERTISING DATA



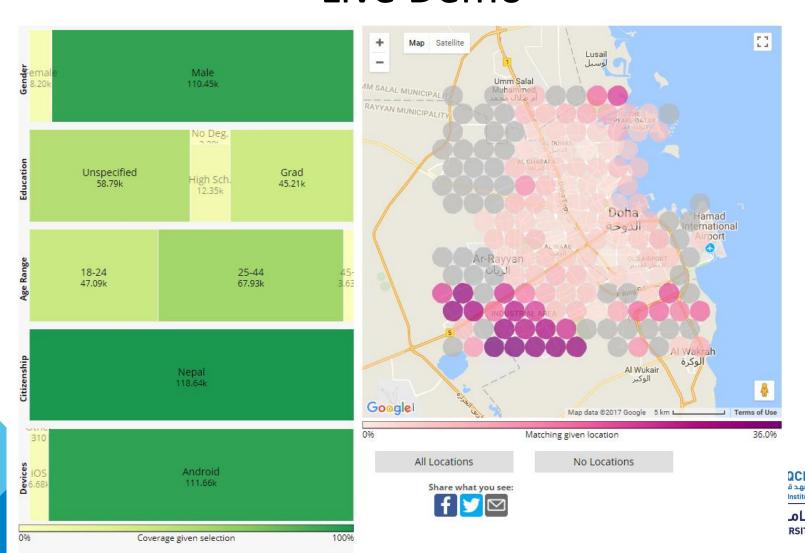


Advertising Data as Digital Census





FB Population Distribution in Qatar Live Demo



Audience Estimate = Digital User Census

- Facebook, Twitter and LinkedIn all provide "how many users match criteria X" data
- Typically used for ad campaign planning
- FB supports ad campaign targeting for
 - Age and gender (self-reported)
 - Home country (inferred from "home city")
 - Education level (inferred from "education history")
 - Interests (inferred from "Likes")
 - Mostly US: income, ethnic affinity, political leaning



Pros and Cons of FB Ad Audience Data

- + International reach (~214M of ~244M expats)
- + Supports disaggregation (age, gender, ...)
- + Very timely data (~ weekly updates)
- + Supports measuring "soft" attributes
- Selection bias (can be corrected, if understood)
- Built on black box (but possible to validate)
- Relies on FB's existence (but idea more general)
- Fake accounts (unclear if this affects models)



DRONE AND SATELLITE IMAGERY



Counting winter camps in the desert





Counting houses in an urban setting





Thanks!

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