

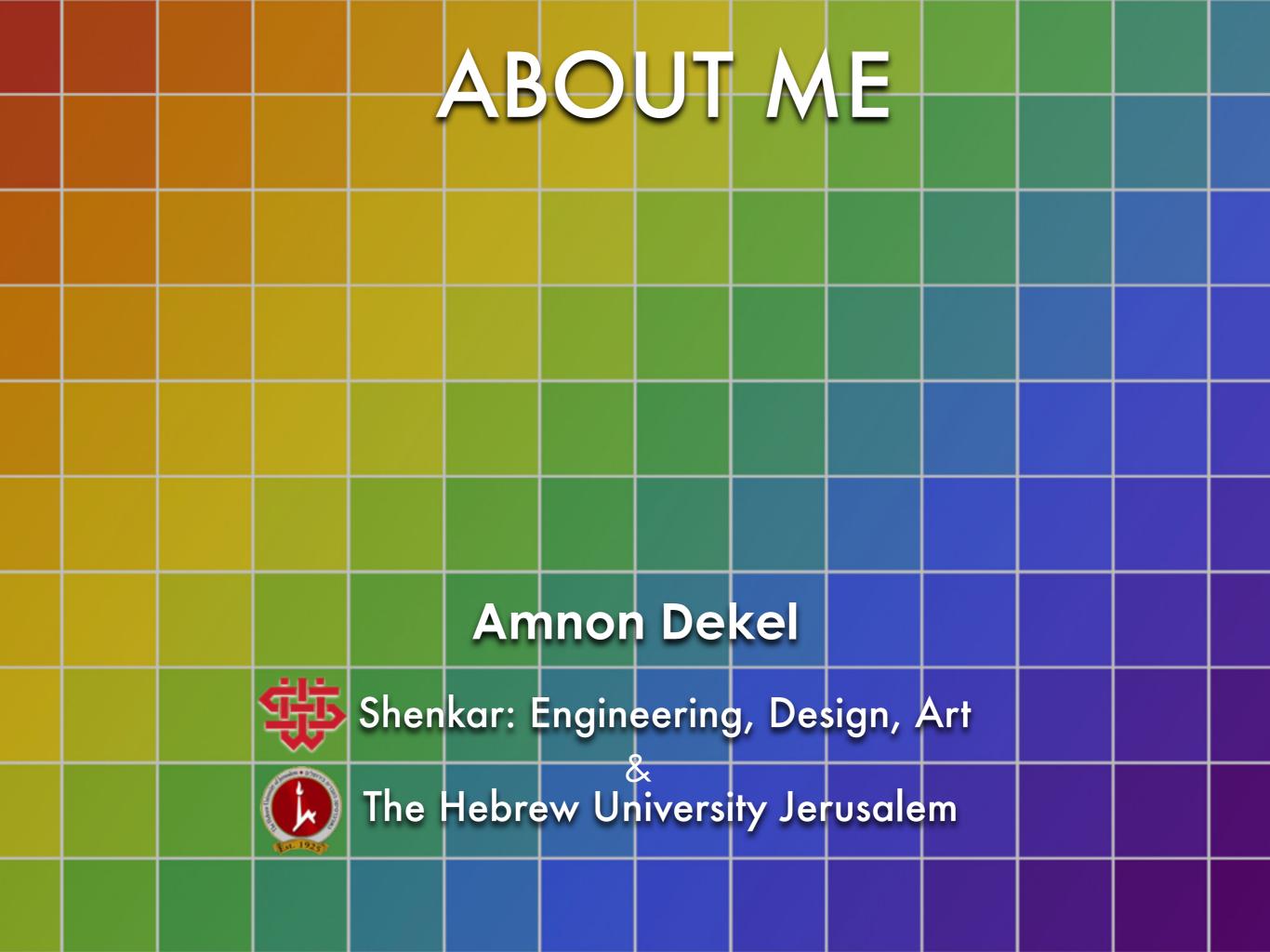
Amnon Dekel



Shenkar: Engineering, Design, Art



The Hebrew University Jerusalem







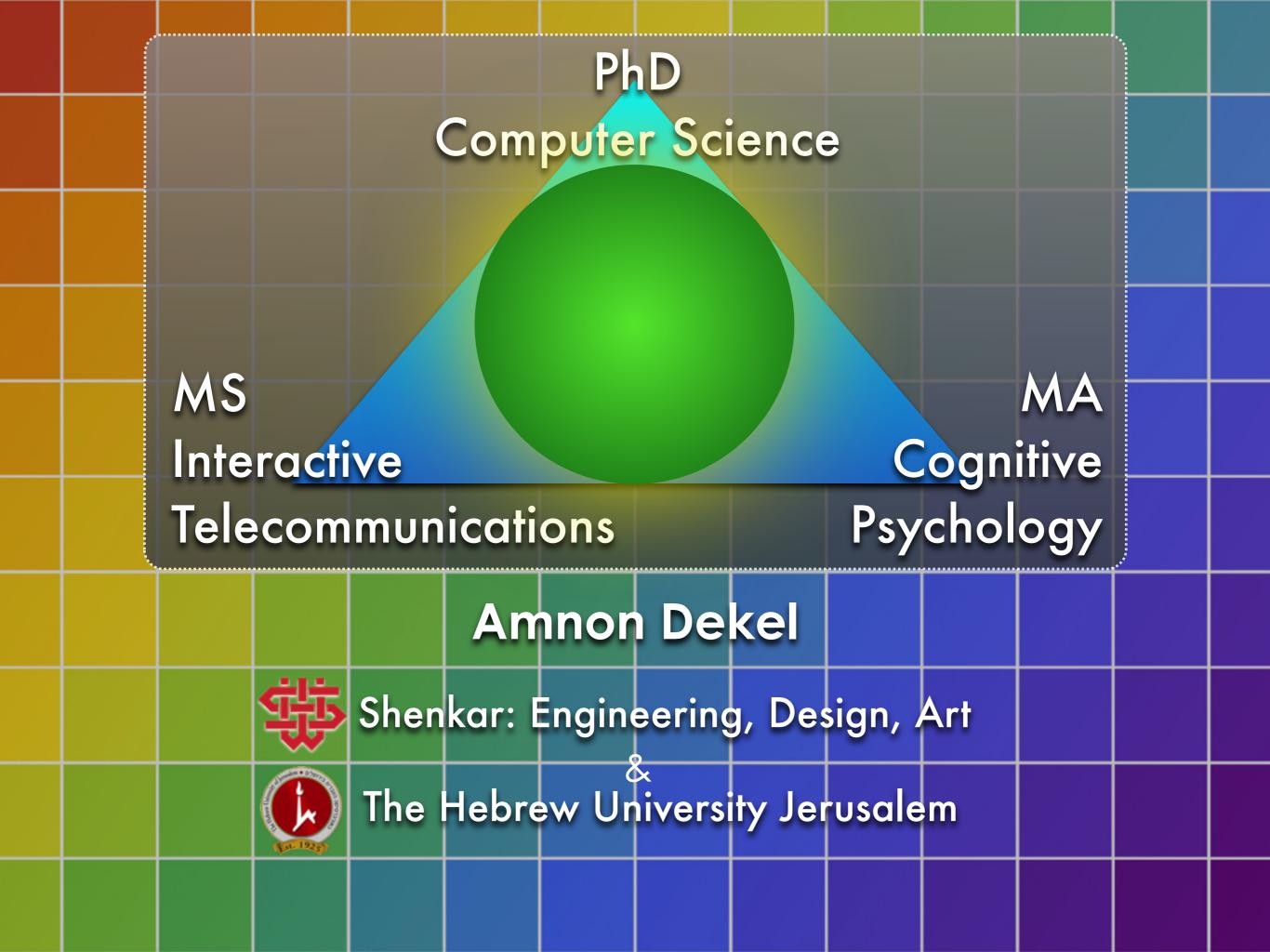


MS
Interactive Cognitive
Telecommunications Psychology

Amnon Dekel

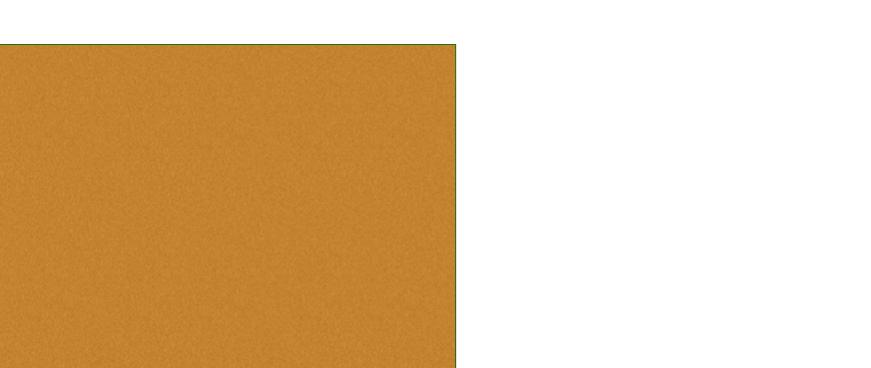








CONTEXT?

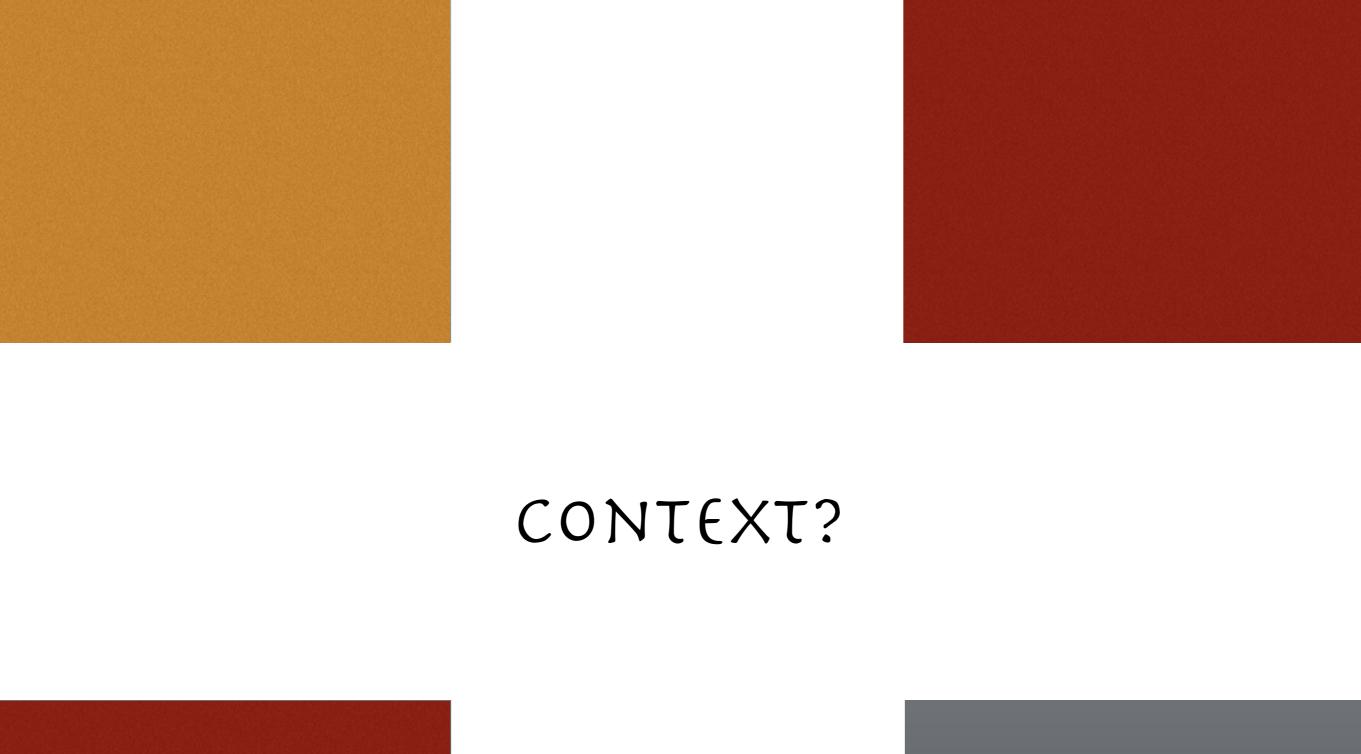






CONTEXT?







Context is as ELUSIVE as it is IMPORTANT

Why ELUSIVE?

No Single Definition

ELUSIVE?

No Single Definition



EIII SIVES

No Single Application No Single Definition



No Single Method

No Single Application

Why IMPORTANT?

Enables Systems to KNOW VYIIY MPORTANT?

Enables
Systems to
KNOW

AADO DTANT? Enables

Systems to UNDERSTAND

Enables
Systems to
KNOW

AADADI Enables

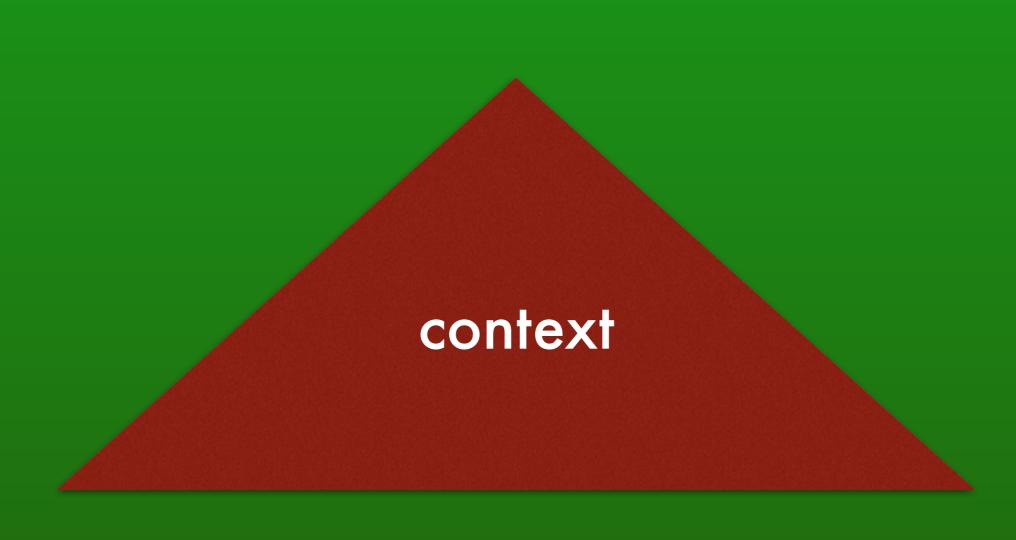
Systems to UNDERSTAND

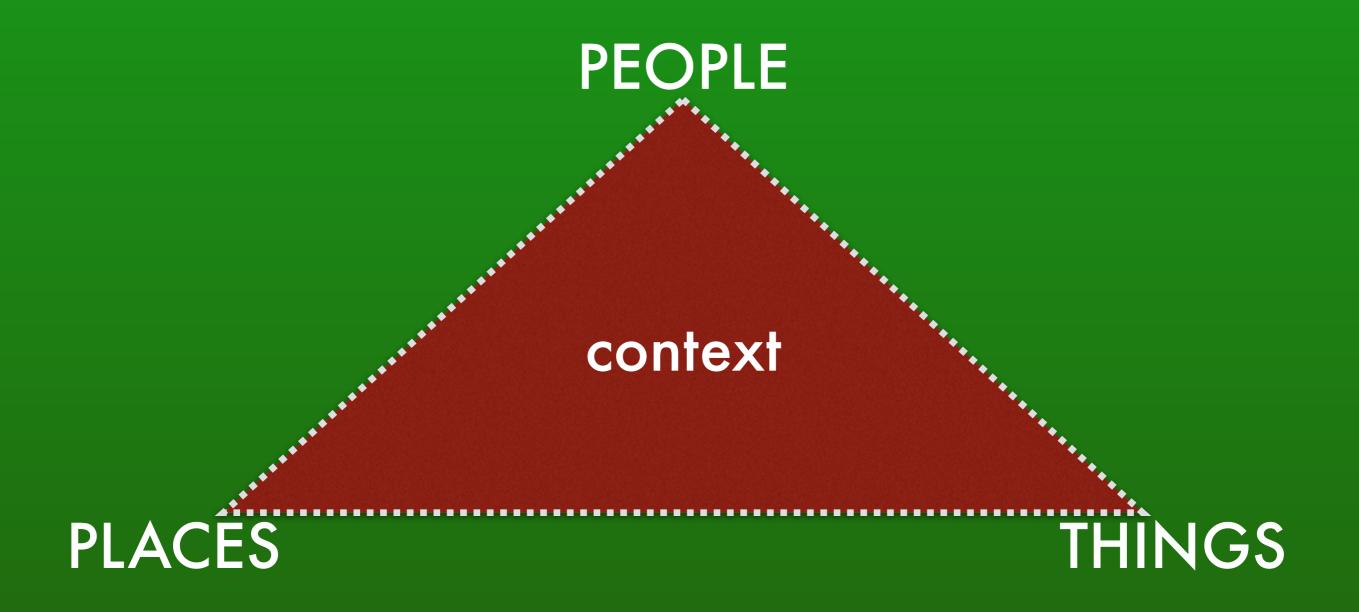
Enables
Systems to
ACT

Enables
Systems to
KNOW

Seems to UNDERSTAND

Enables
Systems to
ACT





PEOPLE

PEOPLE Interact with THINGS in PLACES

PLACES THINGS

PEOPLE

PLACES Enable PEOPLE to do THINGS

PLACES THINGS



Mobile Phones are a Special Class of THINGS

They are a THING

Mobile Phones are a Special Class of THINGS

- They are a THING
- They represent a PERSON

Mobile Phones are a Special Class of THINGS

- They are a THING
- They represent a PERSON
- They are a PLACE

Mobile Context-based Services

Primary Contexts

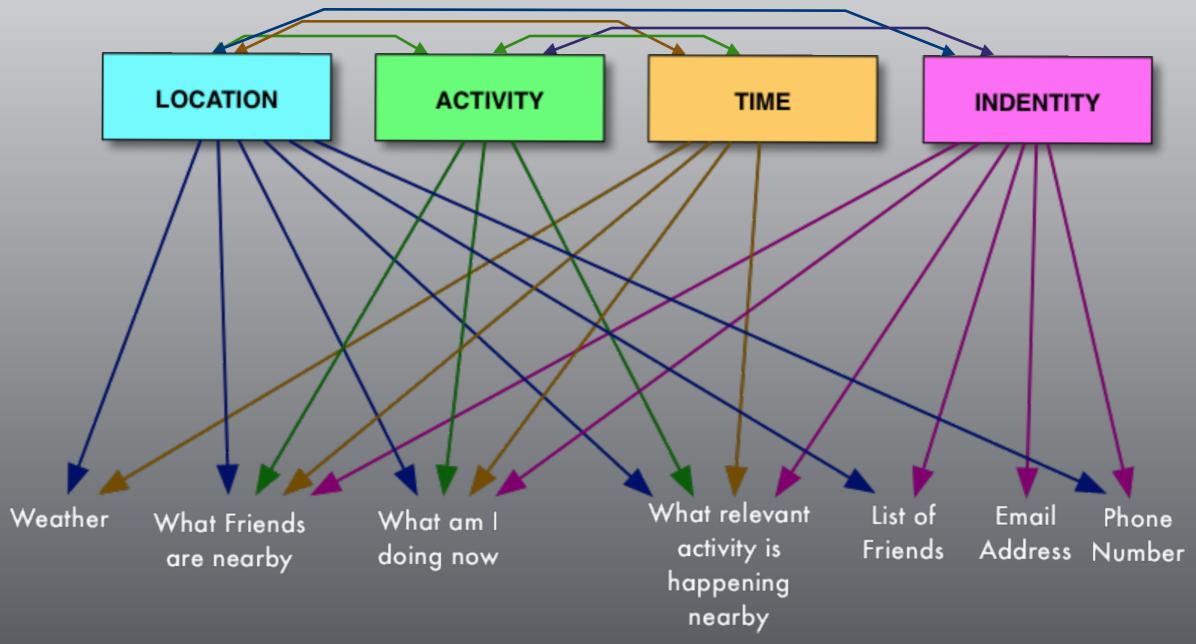
LOCATION

ACTIVITY

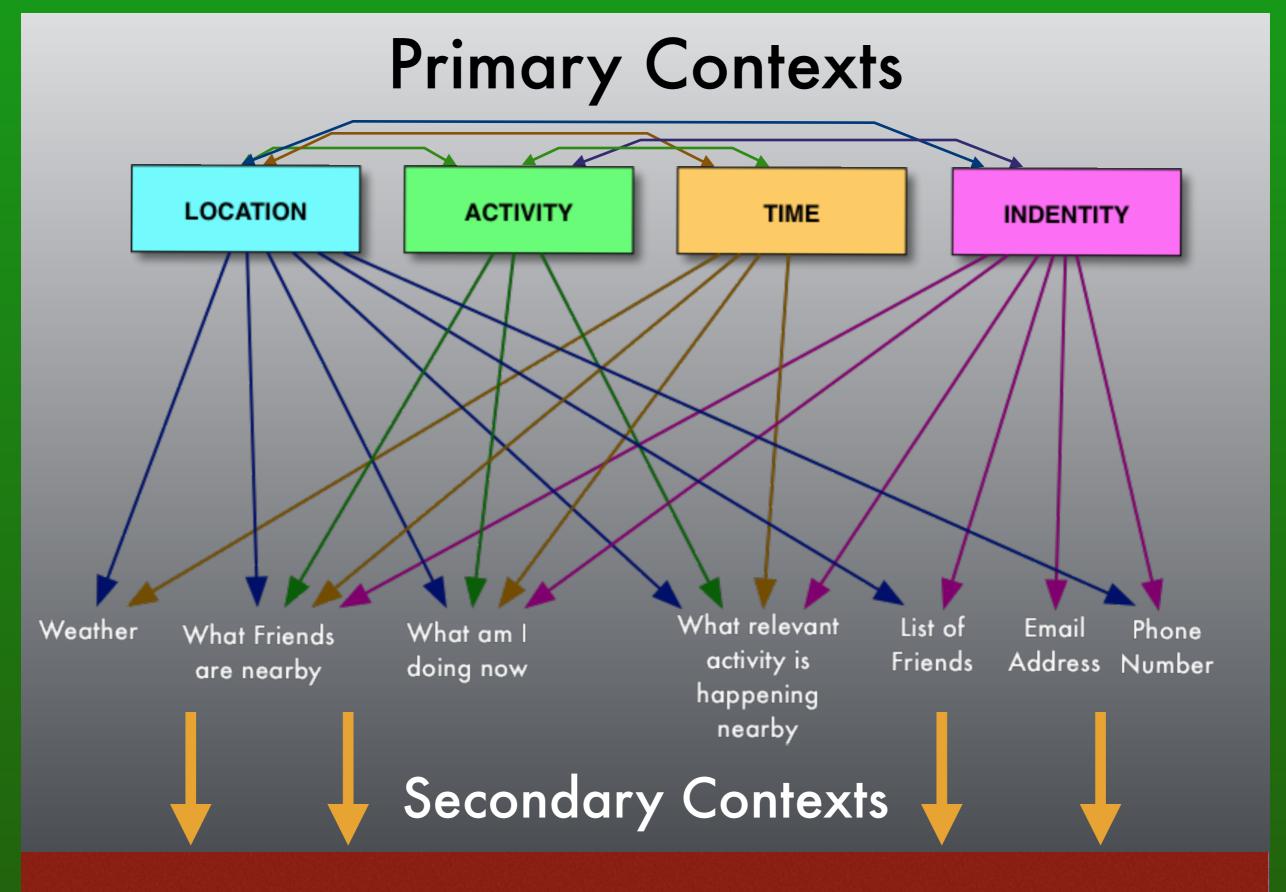
TIME

INDENTITY

Primary Contexts



Secondary Contexts

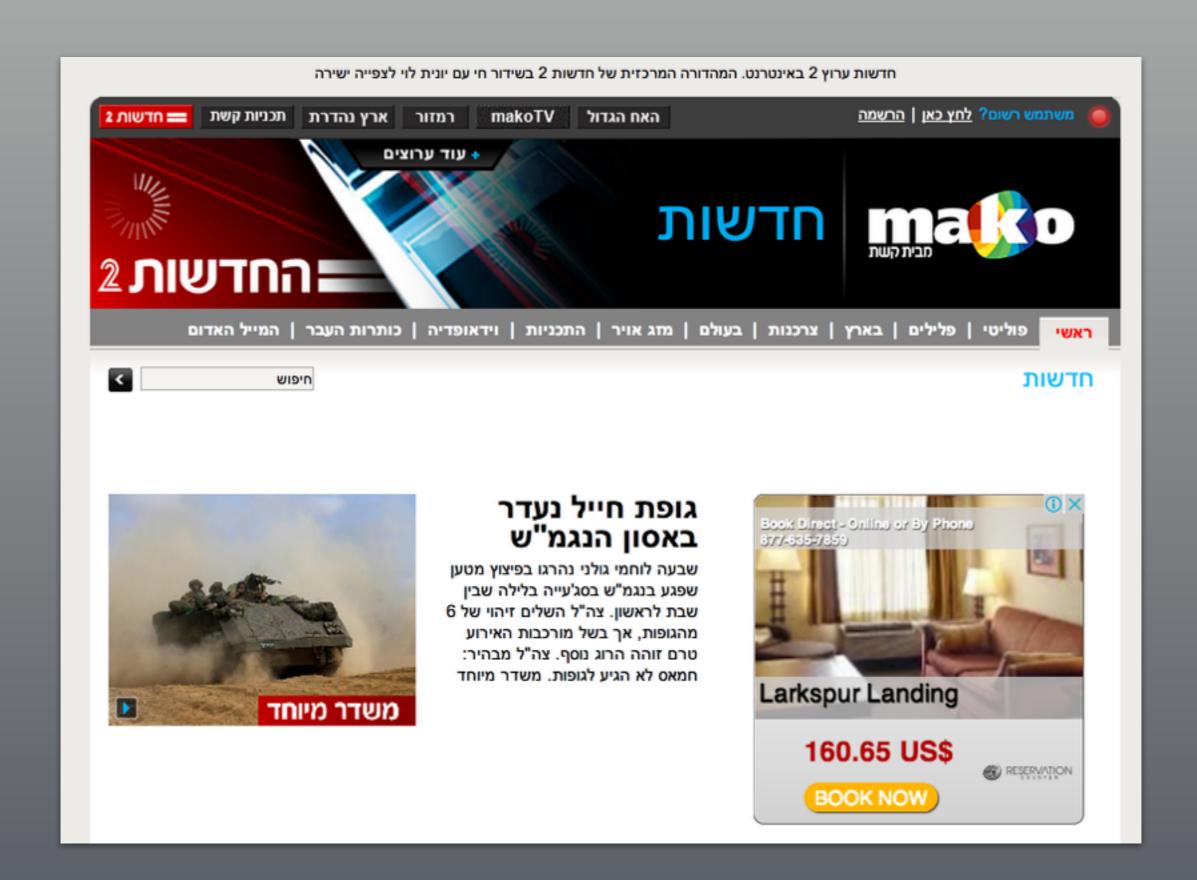


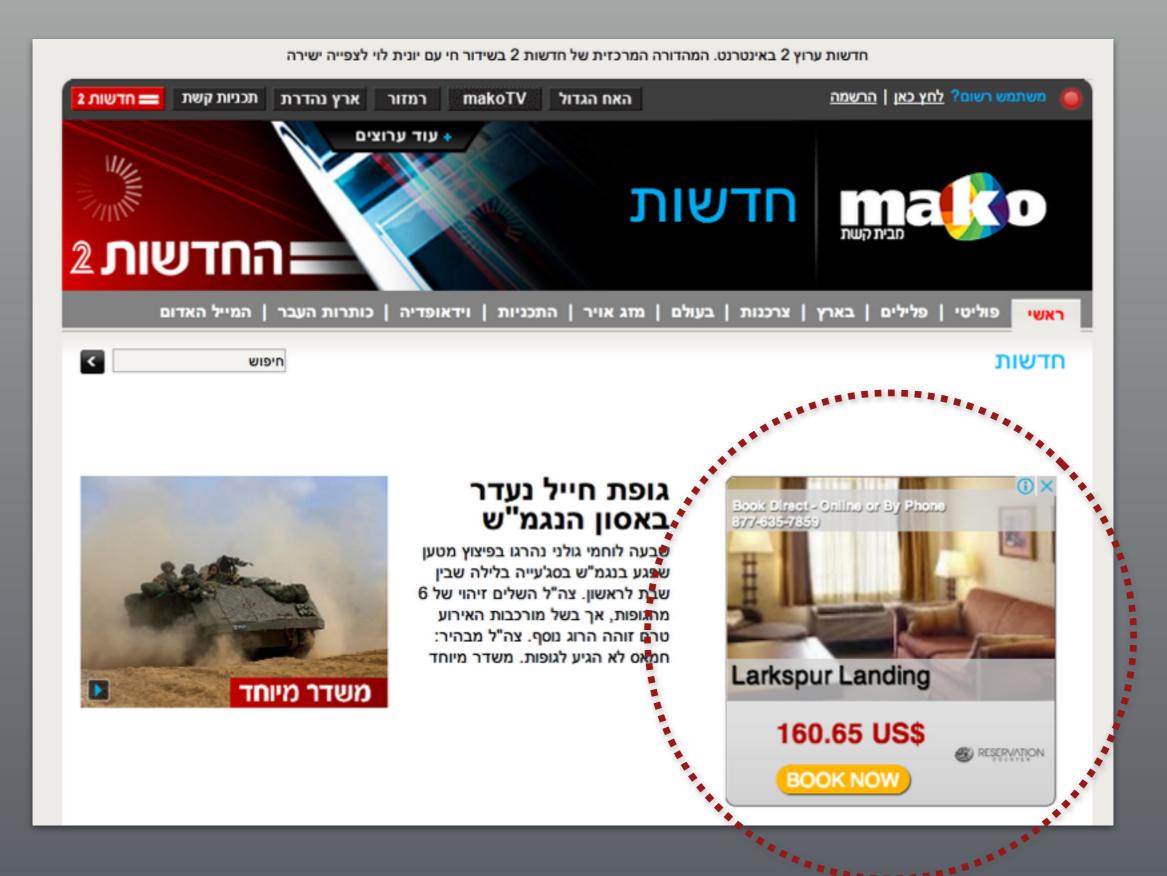
SERVICES / APPLICATIONS

CURRENT



"Personalization"





"Personalization"

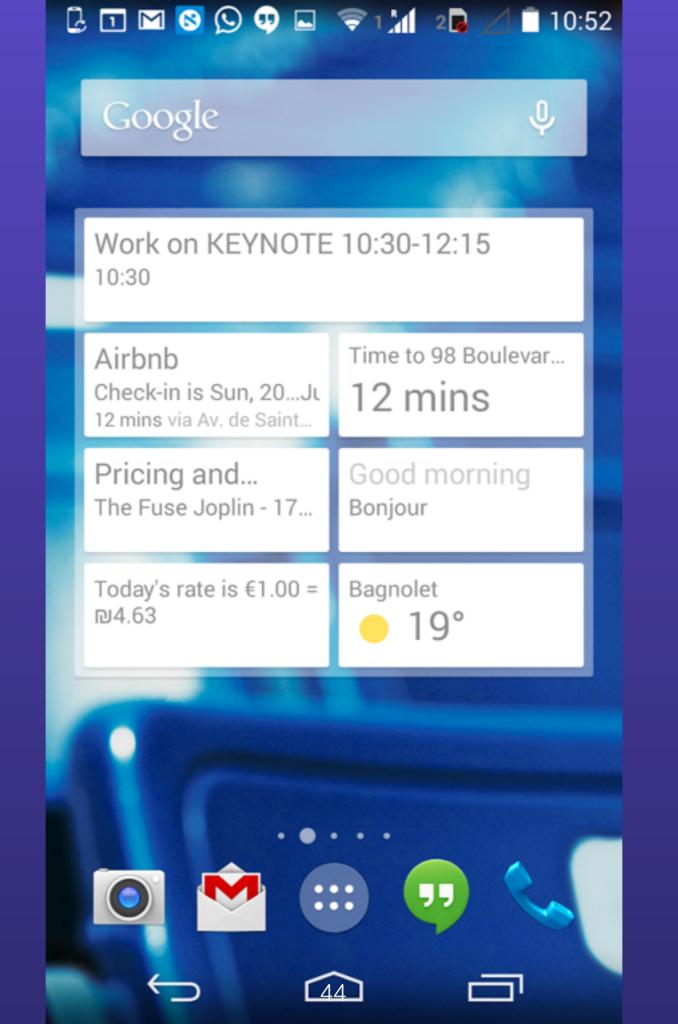
CONTEXT = YOU*

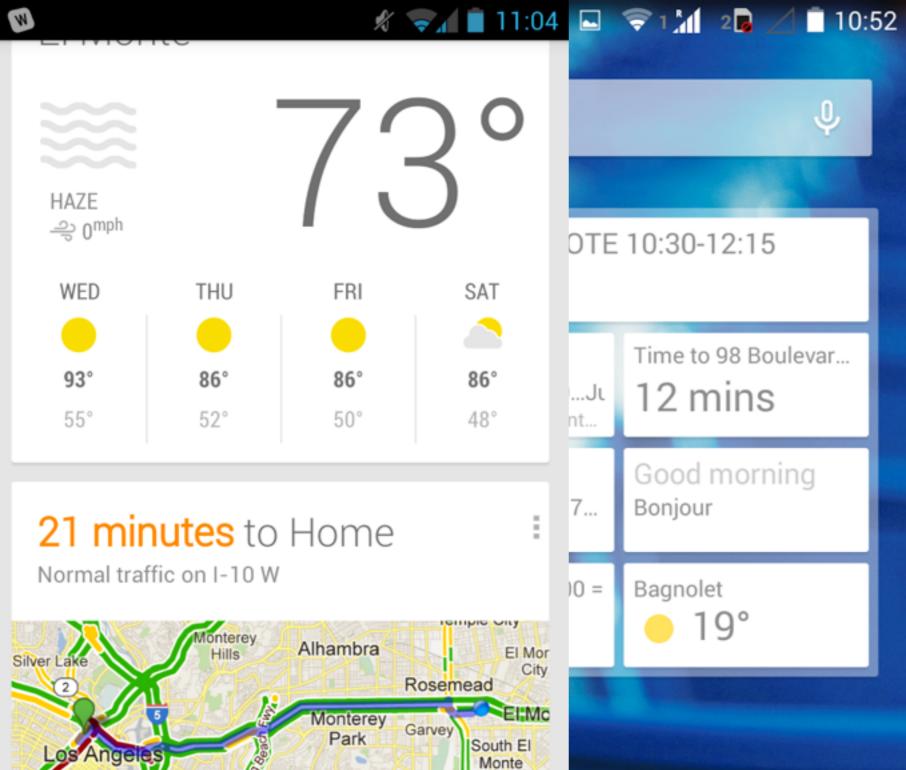
*

Your Browsing history
Your Search history
Your Online Persona

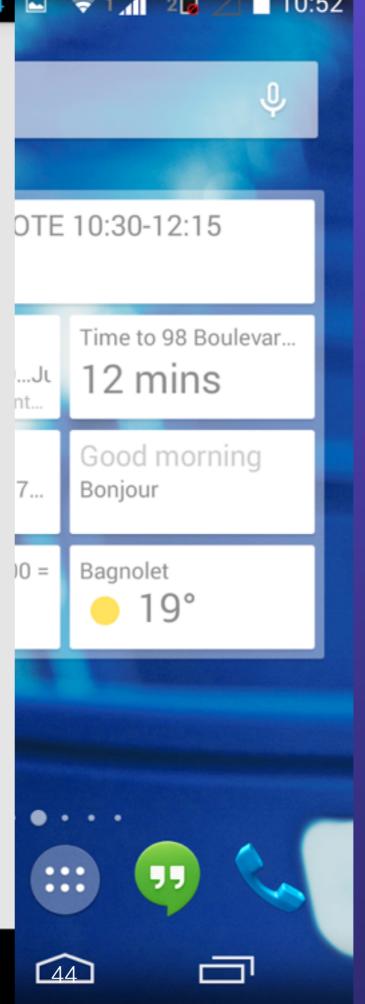
Google now

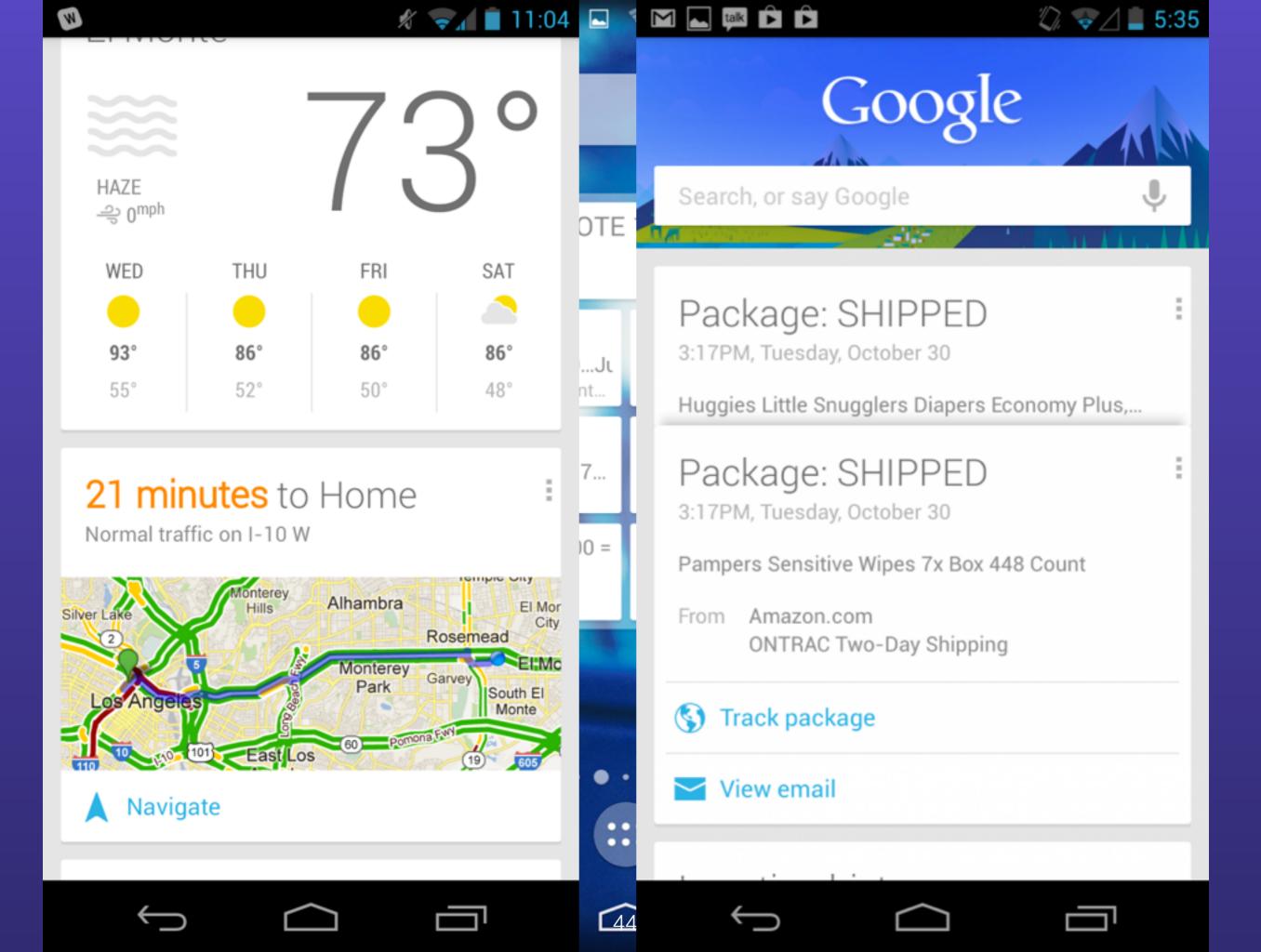
NOW





Navigate





Physical & Semantic Sensors

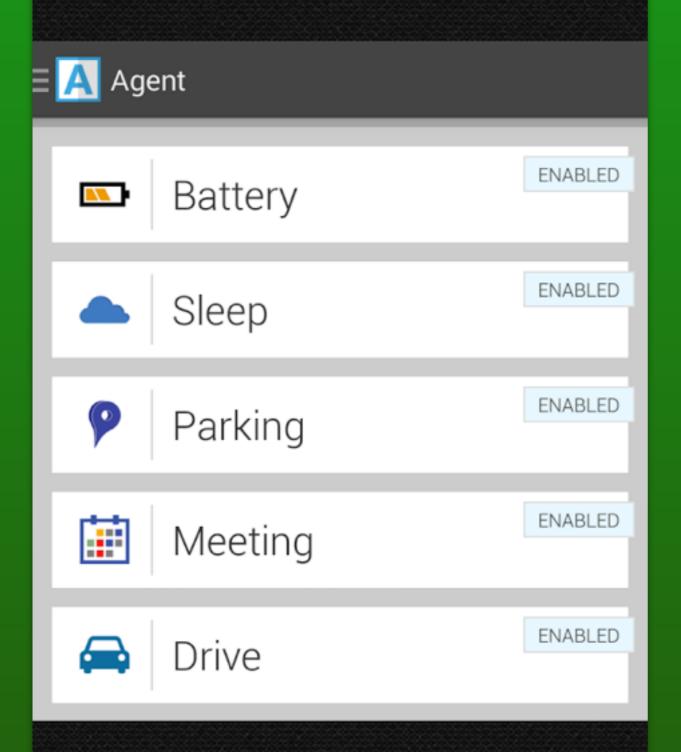
Perpetual Search

Context Relevant Information

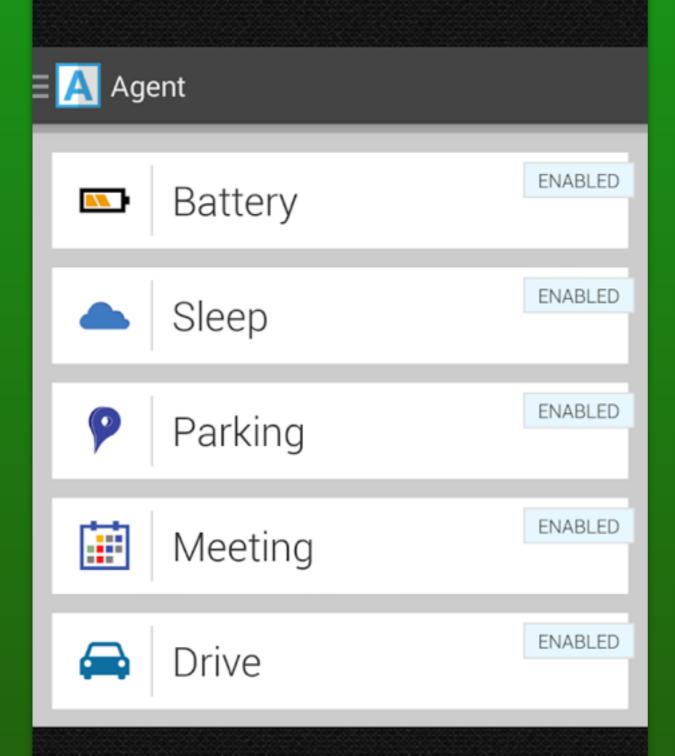


AGENT

Five Agents that solve every day needs ...

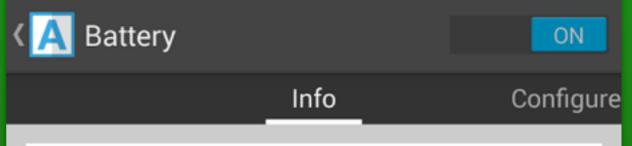


Five Agents that solve every day needs ...



Agent is transparent.

We tell you everything that Agent will do, and how it will do it.



Conserves your battery when you need it most.

Starts when your battery runs low.

- Switches off non-critical functions when battery gets below a level that you set.
- Pauses auto-sync. This lowers data usage, but still allows calling and messaging.
- Dims screen as needed to save battery.
- * Turns Bluetooth on/off to save battery.

CONTEXT = YOUR PHONE Activity*

*

Your Location
Time of Day
Your Calendar



COVER

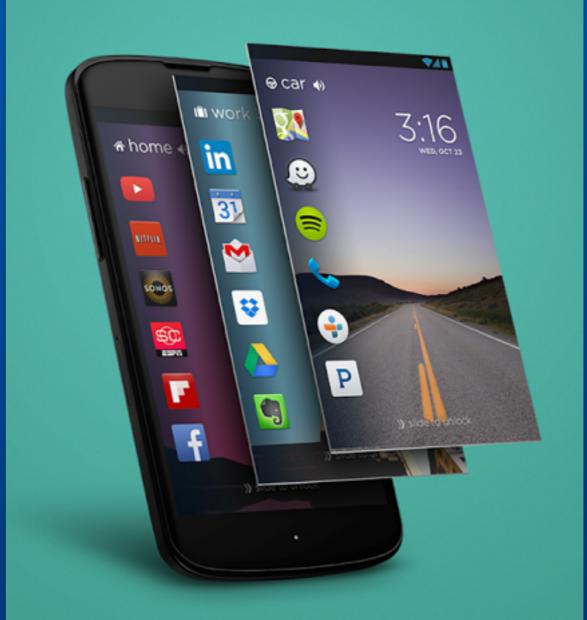
Fast access to the right apps



Fast access to the right apps



Apps automatically change based on context



CONTEXT = YOUR PHONE Activity*

*

Time of Day
Apps Used
Your Calendar



MOVES

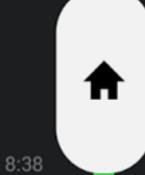


Today









Home

Walk 9 min

8:47

Transport 12 min

8:59

Run 3 min

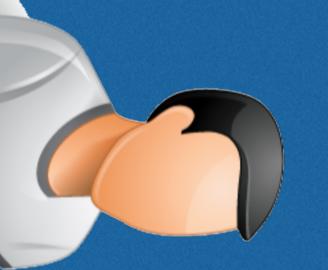


Captures Data that can be used for creating CONTEXT Based Services

8:







My Take on a Possible EUTURE





ENHANCE PERSONAL WELL-BEING



ENHANCE PERSONAL WELL-BEING

Identify your mood, your health, your needs and help improve them

² ENHANCE PERSONAL WELL-BEING

How do we Identify mood, health, needs?

How do we help to improve them?

ENHANCE SOCIAL RELATIONSHIPS





*: Sherry Turkle, MIT



2. ENHANCE SOCIAL RELATIONSHIPS How do we identify close friends? How do we find opportunities for physical meetings? How do we create the meetings?





2. ENHANCE COMMUNITY WELL-BEING How do we identify communal needs? Who decides? How do we help take care of them?

Conclusions

- Context based Computing is not new
- Mobile technology puts processing power and sensors in our pockets
- Cloud Computing puts large scale processing into our products
- Today: experimentation with the first real mobile context based services
- Tomorrow: maturity leads to interacting with deeper and more meaningful contexts

It is more than figuring out how to sell more ads

It has the potential to improve the lives of individuals, groups and communities!

It looks like it will be very INTERESTING!



BON VOYAGE!



amnoid@gmail.com