

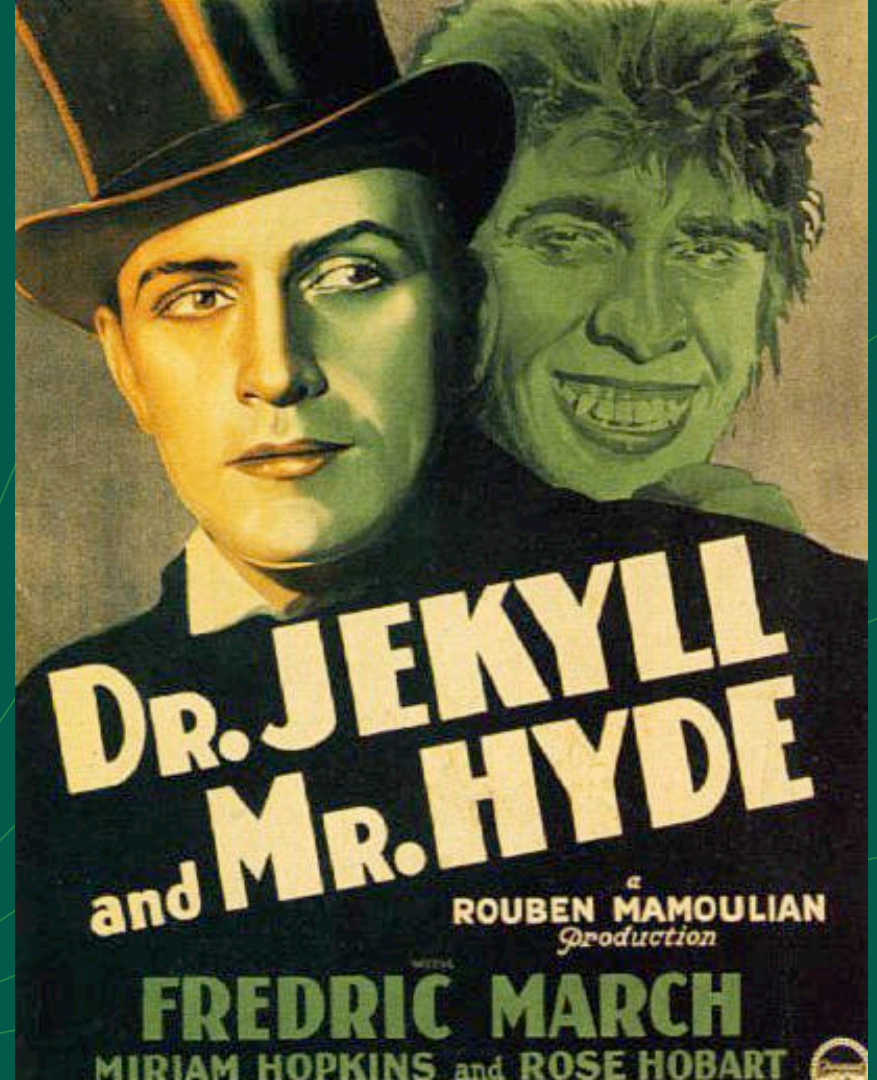
Software Engineers are Culture Engineers

Risto Sarvas
Futurice & Aalto University

Service Design Lead
Futurice

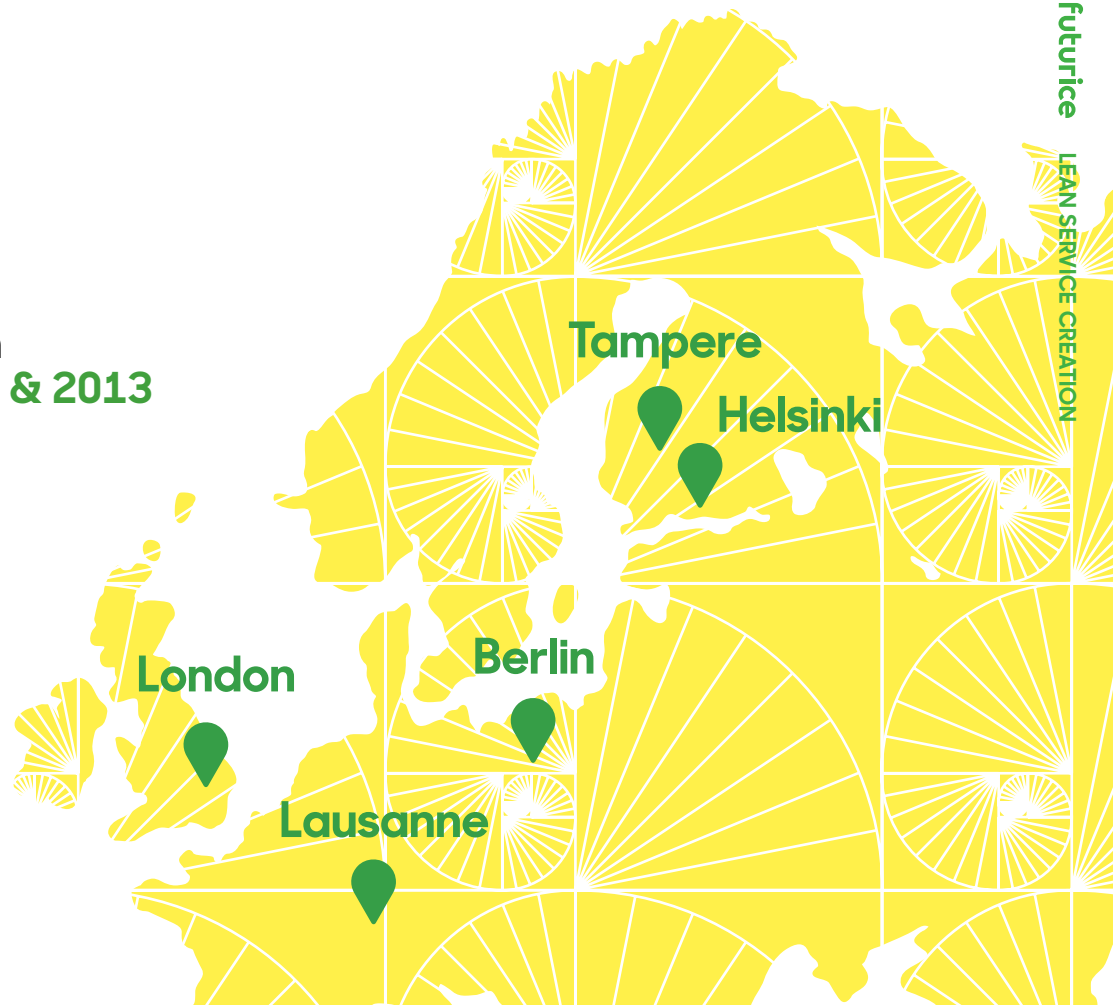
Lecturer
Aalto University

Stay-at-home Dad
2014-15

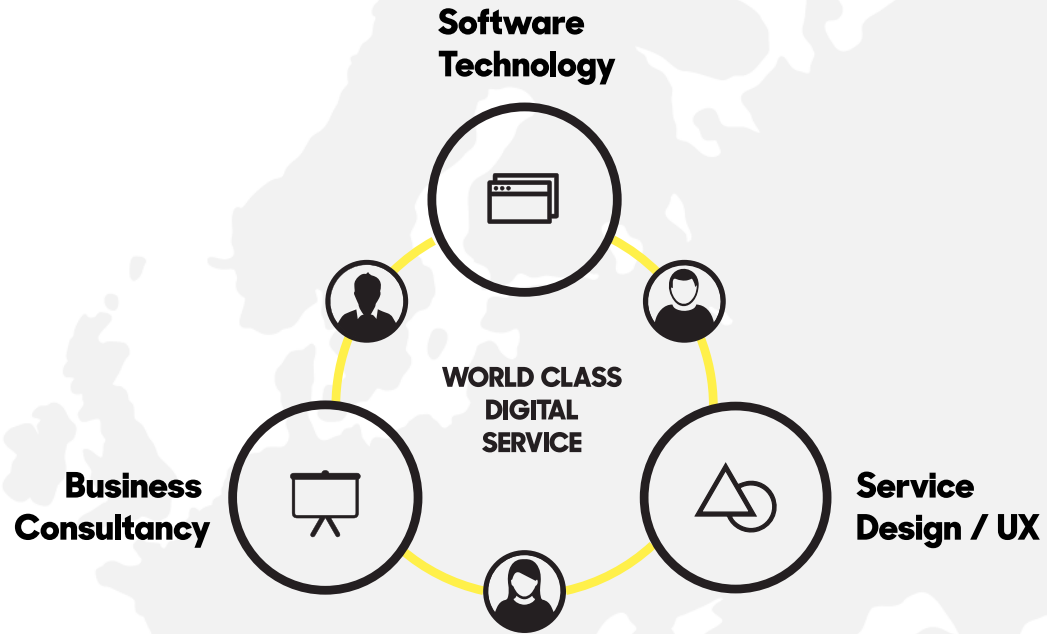


Futurice

- Founded in 2000
- 200+ employees from 18 countries
- 8th year in a row profitable growth
- Best Place to Work in Europe 2012 & 2013



Our toolbox



Digitalization

The background of the slide is a dark teal color. It features a complex geometric pattern of thin, light green lines. These lines radiate from a central point on the left side, creating a series of nested, overlapping triangles that form a spiral shape. The lines extend across the entire slide, creating a sense of movement and depth.

Digitalization is much more
than change in technology.

It is a change in culture...

...into the geek culture!

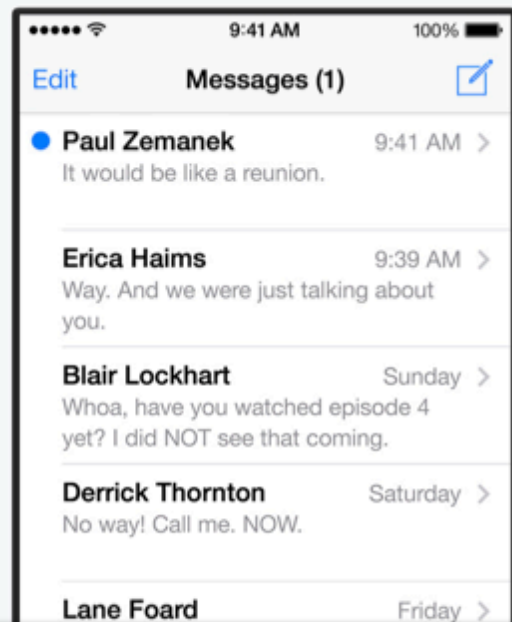
Culture?

Part 1: Software Culture & Photography

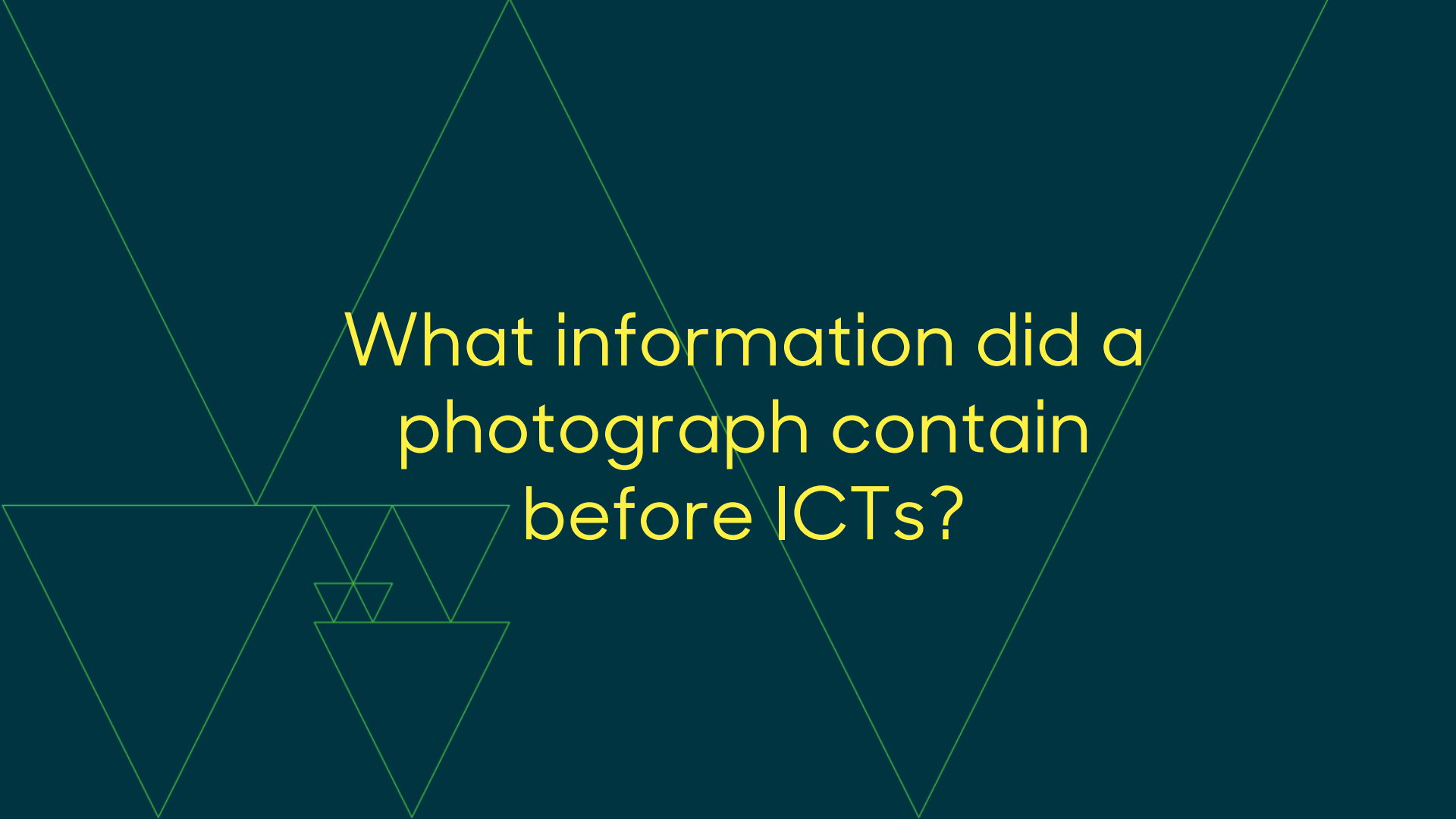




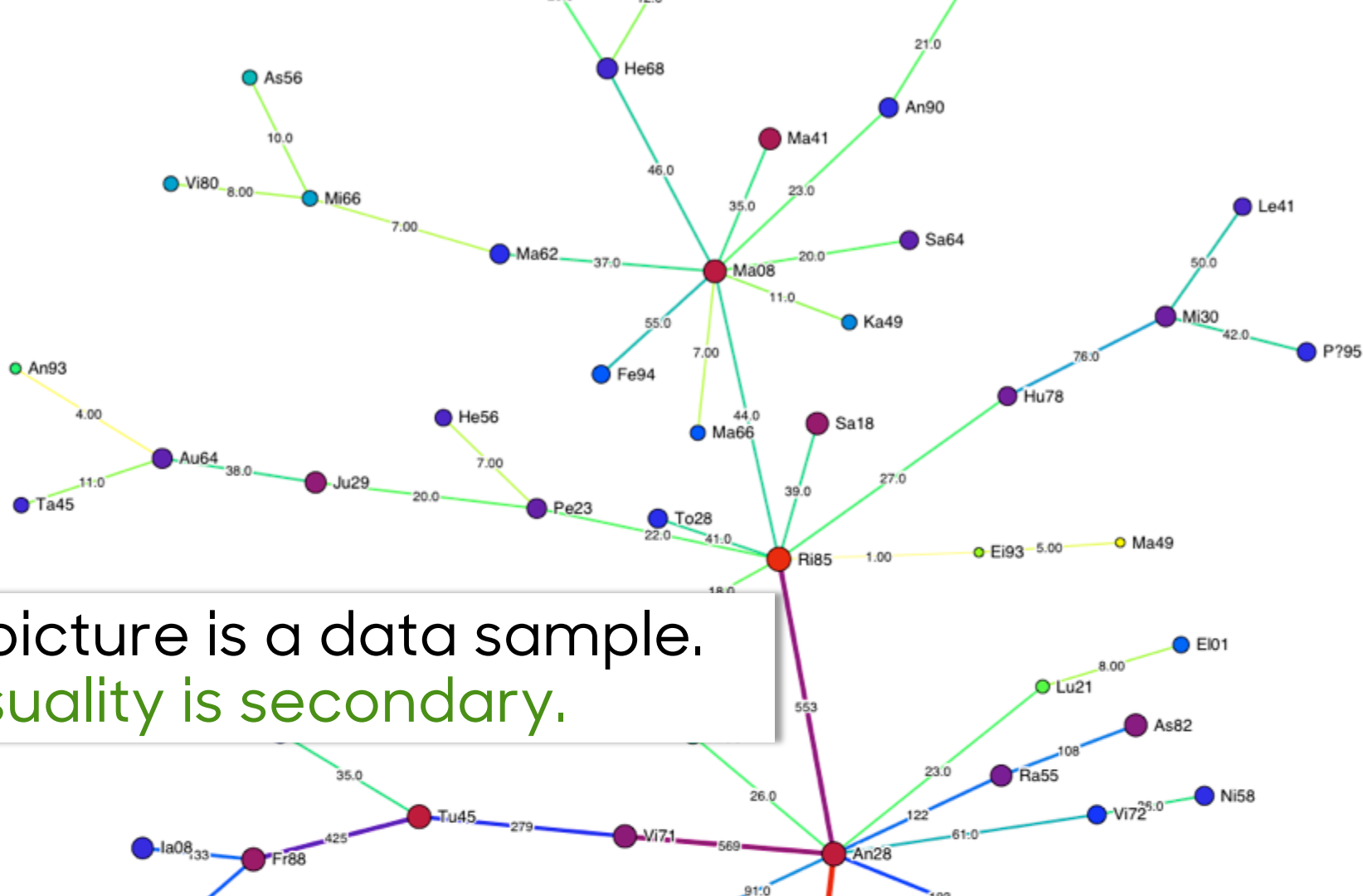
How did we communicate
with photos before ICTs?



A picture is like a comma.
It is not the message.



What information did a
photograph contain
before ICTs?



A picture is a data sample.
Visuality is secondary.

The background is a solid teal color. It features several large, thin-outlined triangles in a lighter teal shade. These triangles are arranged in a way that some point upwards and some point downwards, creating a complex geometric pattern. Overlaid on these are thin yellow lines that form smaller triangles and intersect the larger ones, adding to the abstract design.

Who decided what pictures
to show publicly
before ICTs?



Political dimensions.
Photographers everywhere.



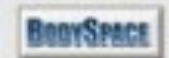
Who controlled
the meanings of pictures
before ICTs?

lanketer

redeyes



Join Date: Sep 2007
Location: ontario, Canada
Age: 24
Stats: 6'2", 172 lbs
Posts: 460
BodyPoints: 698
Rep Power: 183



Can someone here fix the redeye in my pic?

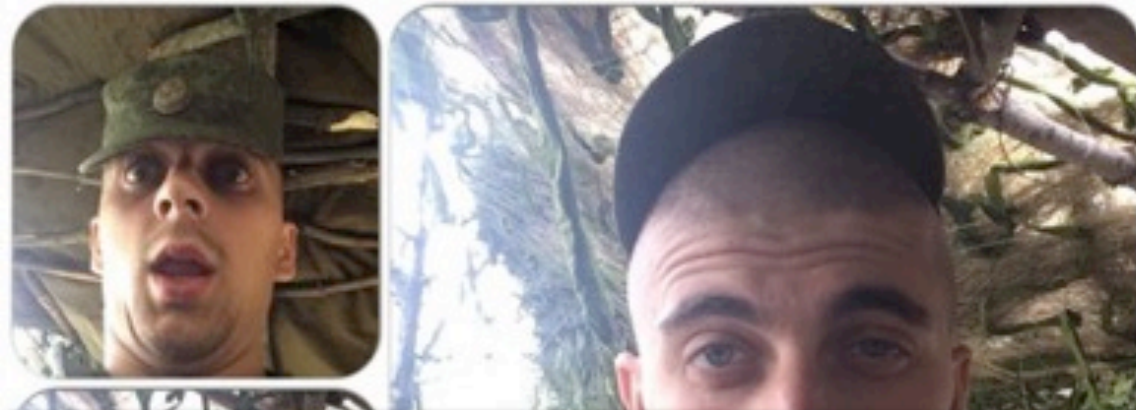
Just was out shooting some bike pics with my friend tonight, anyone here with good photoshop skills able to take out the redeye would be much appreciated thanks!



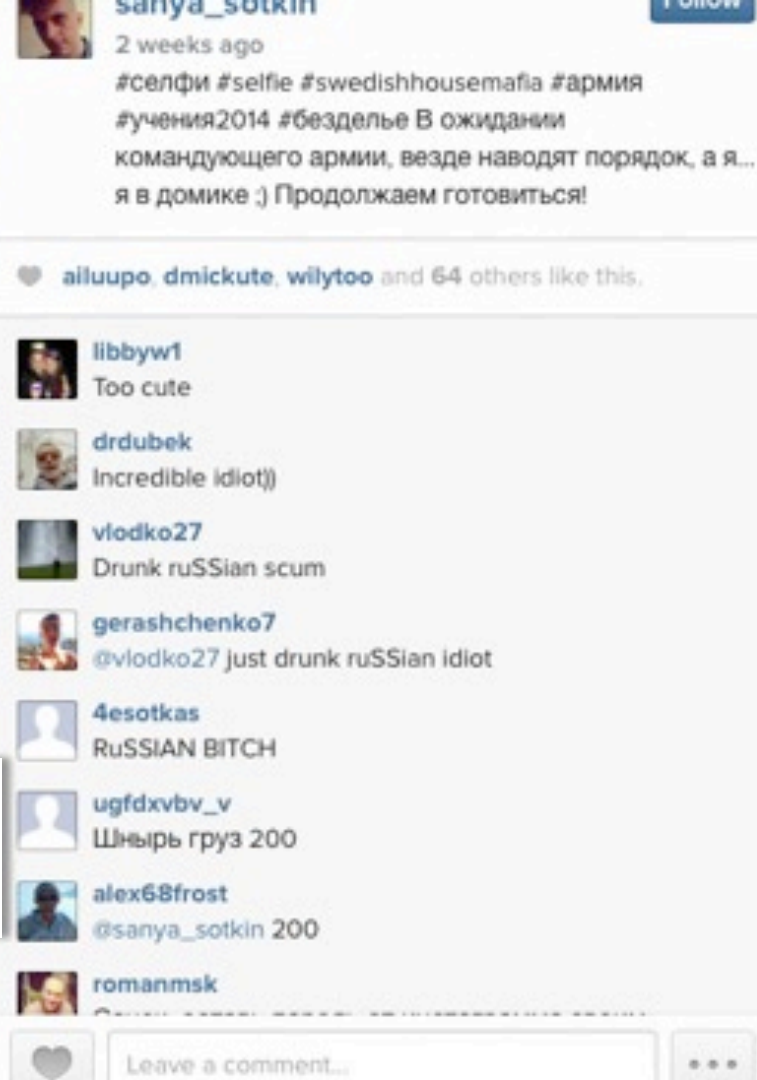
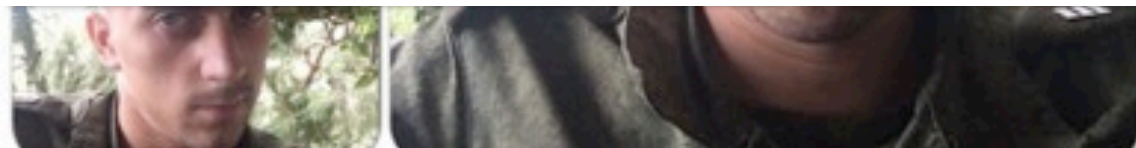
Mememes and meanings.
Democracy of interpretations.



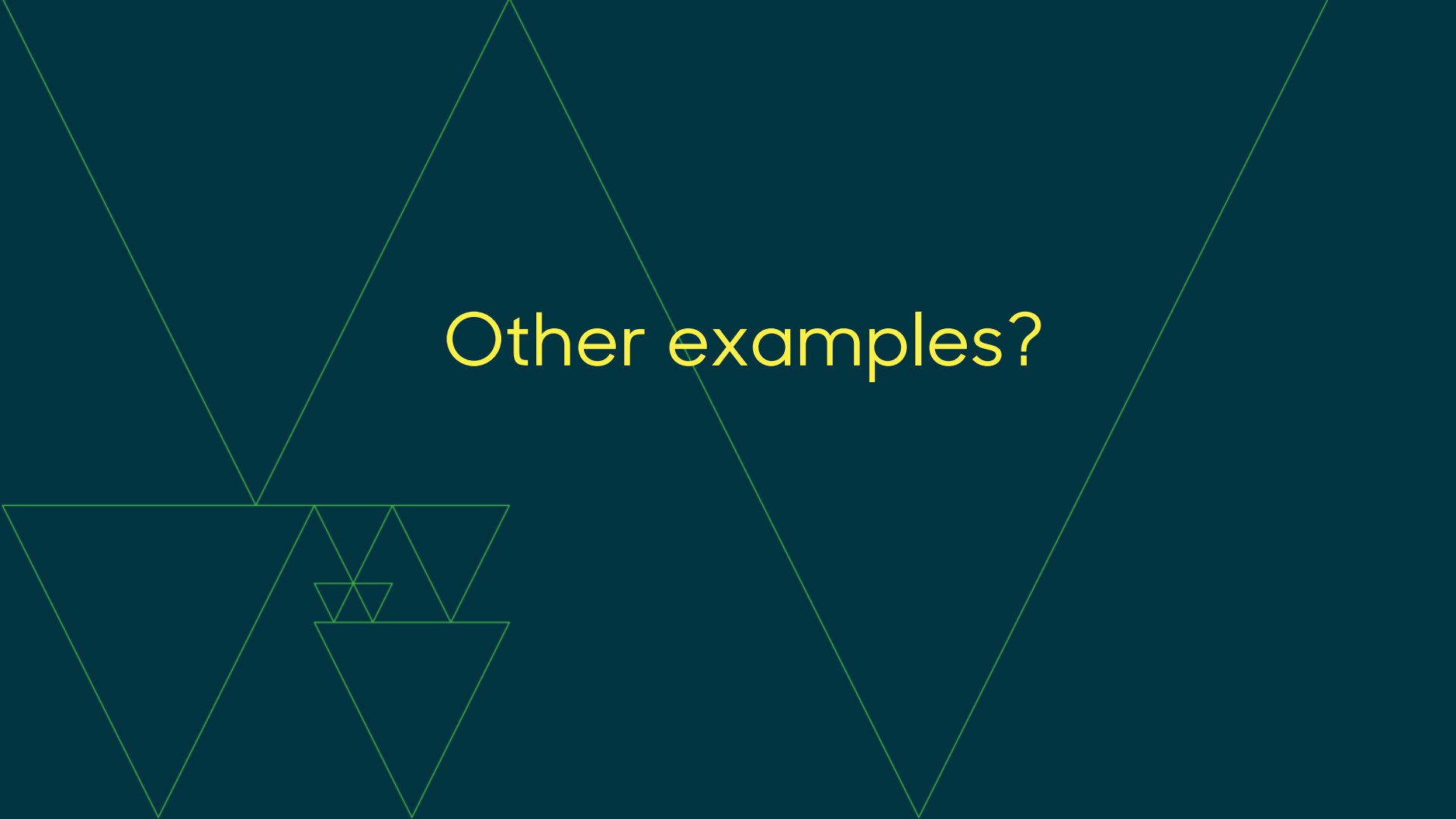
Who were the audiences of
ordinary people's pictures
before ICTs?



Unclear audiences.
Unclear consequences.



Other examples?



- **annimanneena, arastenberger, villapossu, laurakristiina, joinfuturice**
- **kliksnap** Tai sitten "Aikuiset ei trampoliineille"
#voishansitäpredikaattiverbiääainavälilläviljellä
janettajessika #tarnpoliini #ihantylsää #sinnevaan #anarkiaa
pnw0 #määritteleaikuinen

Hashtags.
Main stream culture.

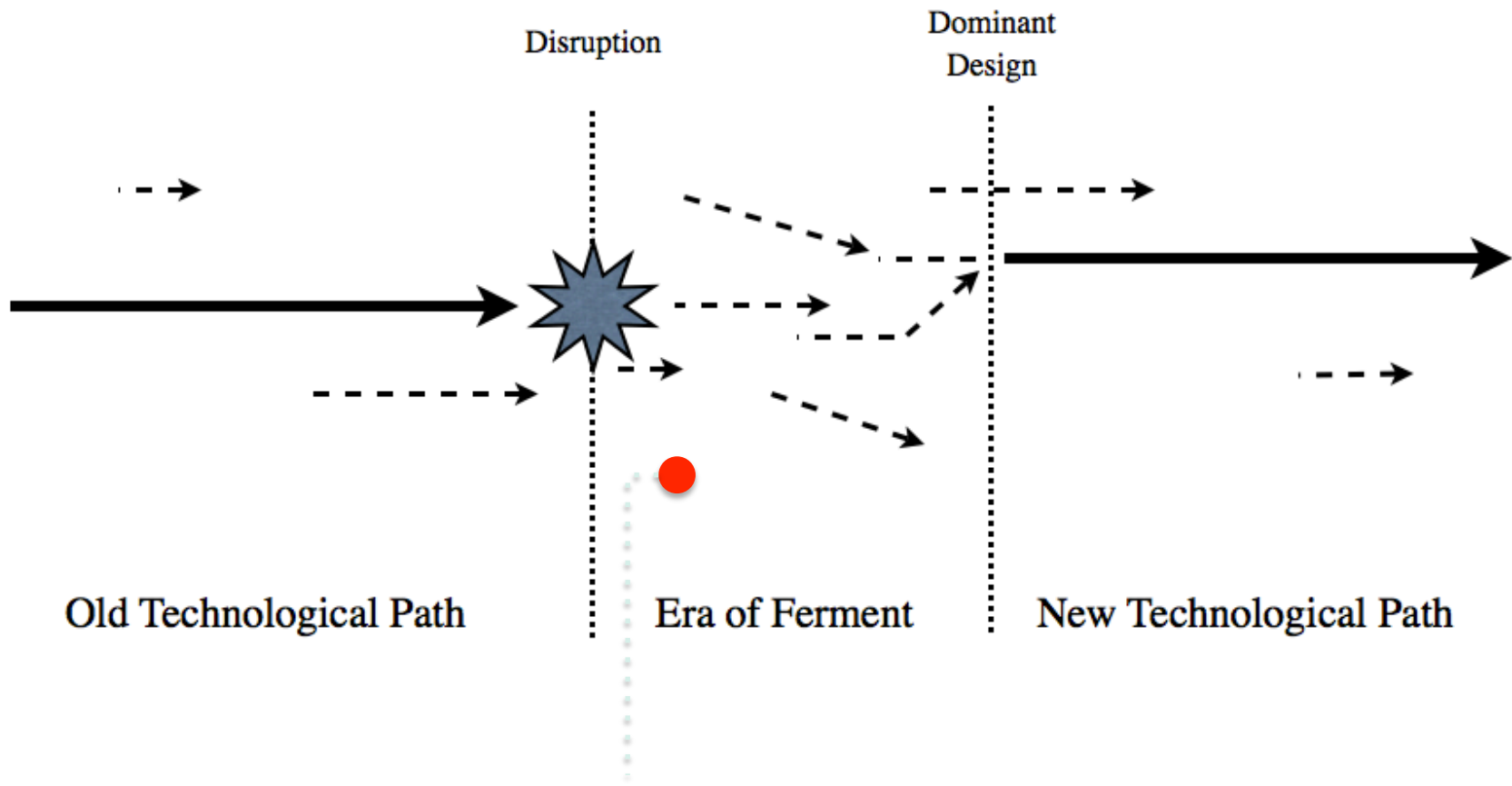
trampoliini pois
aikuinen ja
katsos tota kylttiä!"

The background is a solid green color. In the top left corner, the word "futurice" is written in a white, lowercase, sans-serif font. A large, faint, light green graphic of a spiral, resembling a nautilus shell, is centered on the page. The spiral starts from the bottom left and expands outwards towards the top right, with its center near the middle of the page. The spiral is composed of many thin, curved lines that form a series of concentric, overlapping arcs.

futurice

Part 2: Software Culture & Work

The culture of getting stuff done.



How to...

...from tech-centric to customer-centric?

...from internal politics to getting results?

...from endless meetings to doing stuff?

...from silos to multi-disciplinary teams?

...be a start-up without being a start-up?

Software based products,
systems and services are
often seen as the answer.

...what is the work culture they
bring with them?



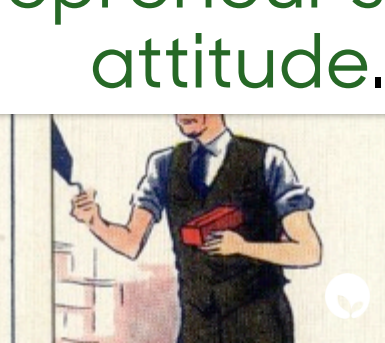
Less planning.
More **trial & error.**

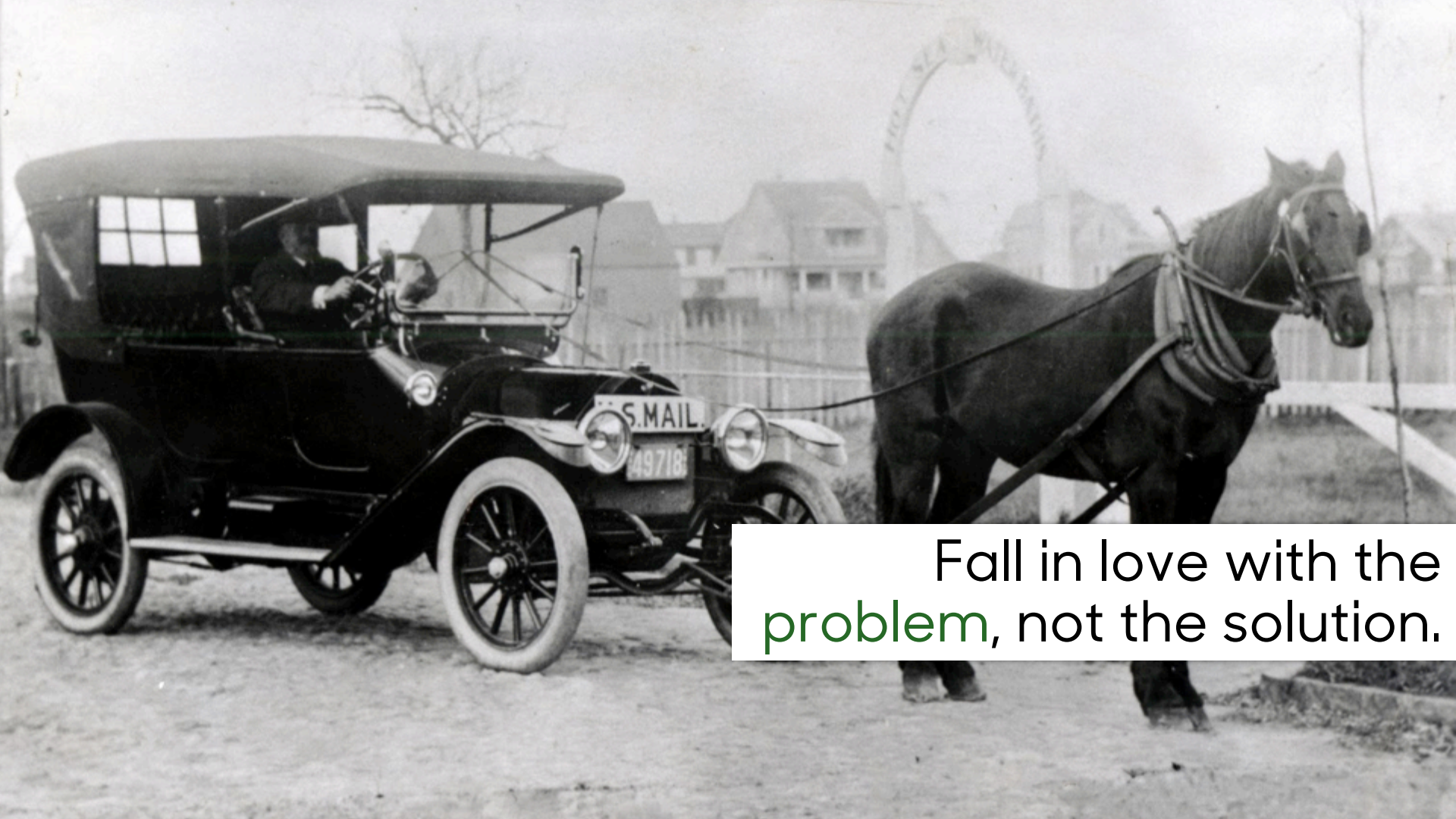


Quick action.
No reporting.



Jack of all trades.
Entrepreneur's
attitude.





Fall in love with the
problem, not the solution.



Leadership,
not management.

ORGANIZATION CHART

of

THE TABULATING MACHINE CO.

BOARD OF DIRECTORS - C-T-R-CO.

Alfred DeBuys	Clarence P. King
George W. Fairchild	Stacy C. Richmond
Charles R. Flint	Joseph E. Rogers
A. Ward Ford	Christopher D. Smithers
Oscar L. Gubelman	Thomas J. Watson
Samuel M. Hastings	George I. Wilber
John W. Herbert	Rollin S. Woodruff
Joel S. Coffin	

OFFICERS-C-T-R-CO.

Thomas J. Watson - Pres. & Genl. Mgr.
George W. Fairchild - Vice-President
James S. Ogsbury - Secy & Treasurer

COMPUTING-TABULATING-RECORDING CO.
Offices - 50 Broad St. - New York City

THE TABULATING MACHINE CO.

General Offices - 50 Broad St.
New York City

DIRECTORS

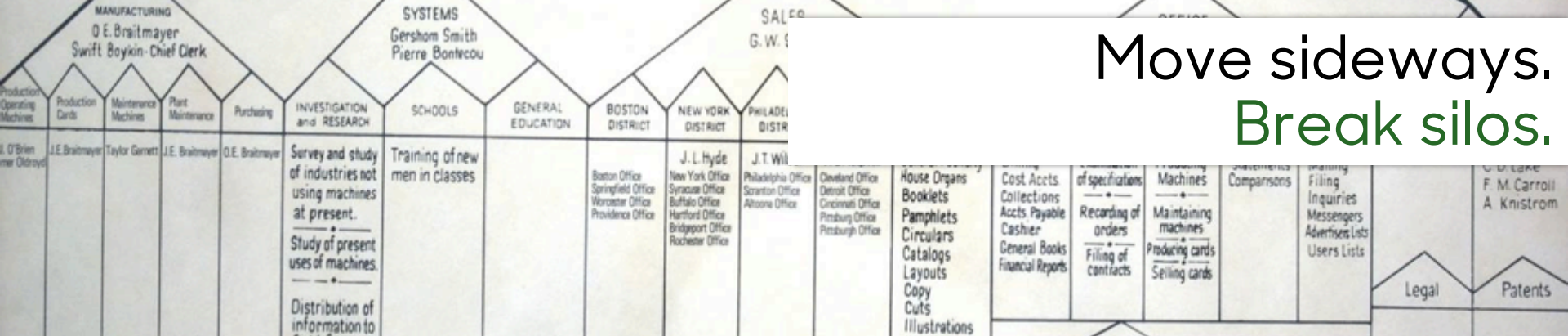
George M. Bond James S. Ogsbury
George W. Fairchild Gershom Smith
Thomas J. Watson

FACTORIES - WASHINGTON, D. C.
- ENDICOTT, N. Y.
- DAYTON, O.

THOMAS J. WATSON *President*
R. L. Houston *General Manager*

OFFICERS

Thomas J. Watson - President
Gershom Smith - Vice-President
R. L. Houston - Treasurer
W. D. Jones - Asst. Treasurer
James S. Ogsbury - Secretary
O. E. Braithmayer - Asst. Secretary



Move sideways.
Break silos.



No critical thinking.
Techno optimism.



Part 3: So what?

Why should you care?

Your skillset?

Communications?

Strategic design?

People skills?

Understanding society?

Constant learning!

Understanding software is
understanding society.

Your values will be
coded into the society.

Growing political and
financial power!

With great powers come
great responsibility.

What will you do
with your skills?

Thank you!
Questions?

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@rsarvas