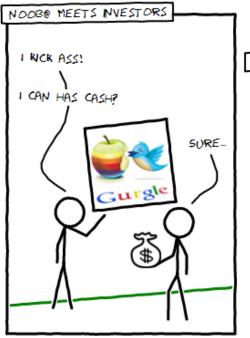
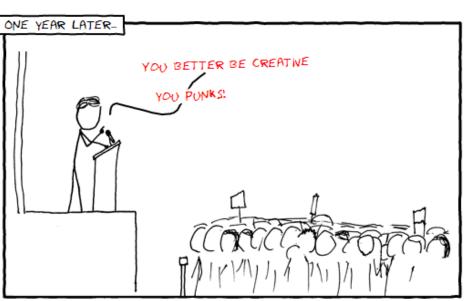
Organizational Culture and Structure at FreeBSD Nothing to learn from Business Schools;)

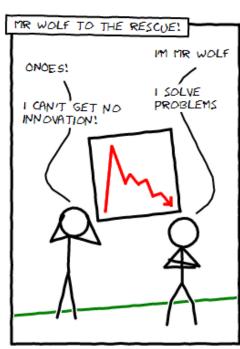


Institute of Biostructures and Bioimaging, Naples, Italy April 6, 2013

Trailer









Outline

Trailer

- ► Trailer
- Organizational Culture

culture: wtf?
empowerment
hierarchy of needs and motivation
creative swiping and NIH syndrom
playfulness

Organizational Structure

self-organization natural system boundary spanning virtual teams

Summary

FreeBSD traits so what? last thought



Sustaining innovation: is organizational culture involved?

"An organization's culture is what determines how people behave when they are not being watched."

-- Tom Tierney, former managing partner, Bain Consultancy



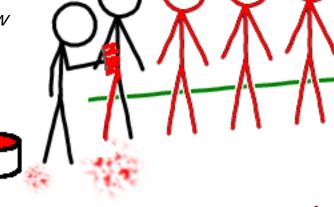
Organizational culture, wtf?

- ▶ Deal and Kennedy (1982): culture defined as "The way we do things around here"
 - refers to the attitudes, rituals, symbols, values of an organization

WHAT CULTURE DO I NEED ?!

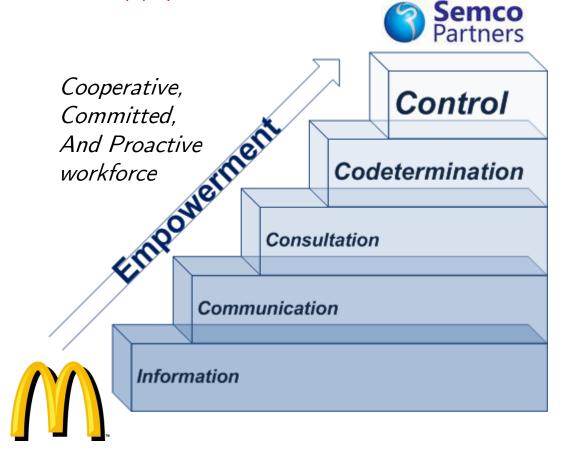
Examples of organizational values:

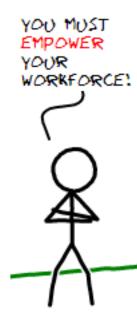
we lead by example
we respect the individual
we act with integrity
fast is better than slow
focus on the user and all else will follow
you can be serious without a suit





Empowerment (1/2)





Marchington, M., Goodman, J., Wilkinson, A., Acker, P.,

New Developments in Employee Relations, Research Series, No. 2, Sheffield, UK: Employment Department, 1992.



Why My Former Employees Still Work For Me, Harvard Business Review, Vol. 72, No. 1, pp. 64-71, 1994.



Empowerment (2/2)

FreeBSD developers control when, on what and with whom they want to work

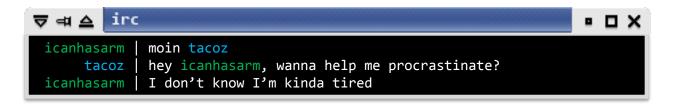
GOOD IDEA!

WE ARE
EMPOWERED
AT FREEBSD

AND IT WORKS!

truly self-managing work teams with almost no limits to their autonomy

high-involvement work system which can be very effective





የውሀ MUST MOTIVATE YOUR

WORKFORCE!

Need for self-actualization (challenging projects, opportunities for innovation and creativity, learning at a high level...)

Need for self-esteem (recognition of strength intelligence, prestige and status...)

Social needs - belonging (acceptance, group membership, love and affection...)

Need for safety and security (physical safety, economic security, comfort, peace...)

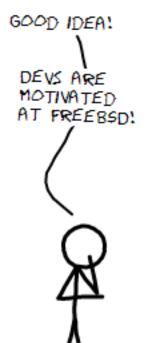
Physical survival needs (water, food, sleep, health, sex...)

d △ irc • O X icanhasarm: need your knowledge femur femur: you can't get aids from goats icanhasarm icanhasarm: need your knowledge, take 2 femur









Creative swiping, no NIH syndrom (1/2)

- ▶ Peters (1987): Put **NIH** (Not Invented Here) behind you and learn to copy (with unique adptation / enhancement) from the best
 - → PFE (Proudly Found Elsewhere)
- Huston and Sakkab (2006): creative swiping improves the rate of innovation



Peters, T.,

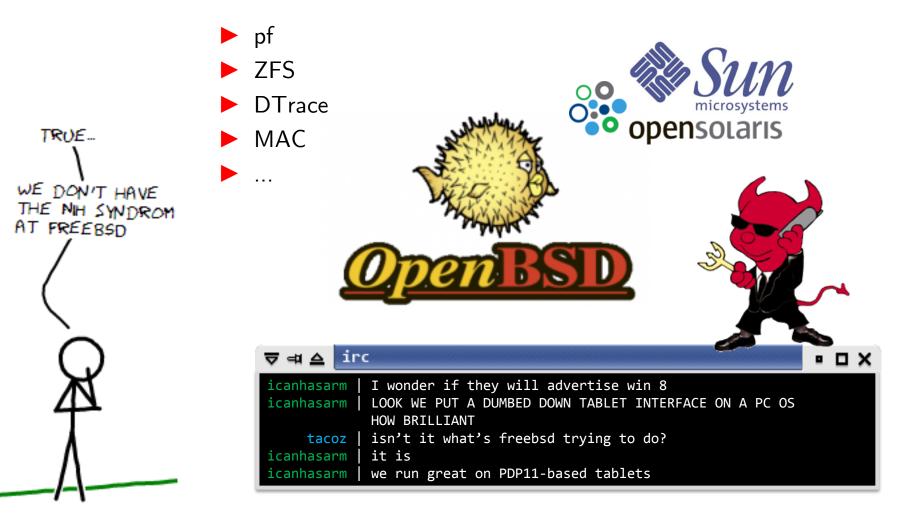
Thriving on Chaos, London, Macmillan, 1987.



Connect and Develop, Harvard Business Review, Vol. 84, No. 3, pp. 58-66, 2006.



Creative swiping, no NIH syndrom (2/2)



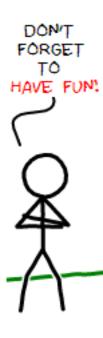


Playfulness

Schrage (2000): "Innovation is less the product of how innovators think than a by-product of how they behave. [...] You can't be a serious innovator unless you are willing and able to play."



```
good afternoon all
canadabald
            hey ho canadabald
     femur
            canadabald: should I fix that typo?
     femur
            canadabald: would you mind answering femur,
icanhasarm
            instead of pretending your a klingon warrior?
    femur
            tnx icanhasarm appreciate it
            but but i can't be in klingon
    femur
            for i hate star wars
     femur
            I thought klingons were twilight bad guys ?
icanhasarm
            no that's king kong
    femur
icanhasarm_ totally lost with all those teen movies
            lost is not a teen movie
     femur
            btw I've committed the typo fix no matter what he says
    femur
            canadabald: go on then, pretend you're a klingon warrior,
icanhasarm
             even if klingons ain't nothing but bit****, we do not need you anymore
```





Sustaining innovation: which organizational structure to set up?

"Structure follows strategy as the left foot follows the right."

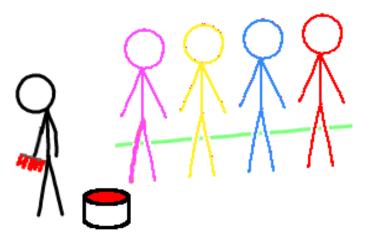
Mintzberg, H, The Design School: Reconsidering the Basic Premises of Strategic Management, Strategic Management Journal, Vol. 11, pp. 171-195, 1990.

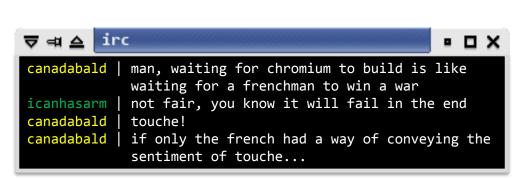


ORGANIZE IT!

Self-organization

- ▶ Workers organize their day-to-day work in a professional manner
- Semler: "Semco's standard policy is no policy" do not instill a few values to be respected by all employees, but promote autonomy and diversity

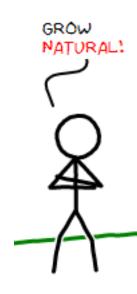






Natural system (1/2)

- Scott: "a collectivity whose participants share a common interest in the survival of the system and who engage in collective activities, informally structured, to secure this end"
 - ▶ informal structure
 - variety of interests and plurality of goals
 - ▶ evolves and adapts depending on changes in both internal and external environments but does not rely on strict plans and strategies





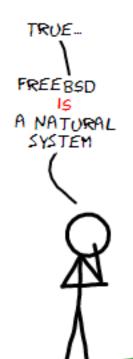
Natural system (2/2)

▶ Segmentation of work and interests (3 types of commit bits):

src

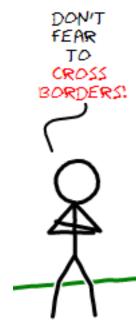
ports

docs





- ▶ Aldrich et al. (1977): boundary spanning -> information brought to the organization from outside, by networking accross traditional organizational borders
- Newell et al. (1990): the more boundary spanners an organization has, the higher its degree of innovativeness



Aldrich, H., Herker, D.,

Boundary Spanning Roles and Organization Structure, The Academy of Management Review, Vol. 2, No. 2, pp. 217-230, 1977.

Newell, S., Clark, P., A.,

The Importance of Extraorganisational Networks in the Diffusion and Appropriation of New Technologies: The Role of Professional Associations in the United States and Britain, Knowledge: Creation, Diffusion, Utilisation, Vol. 12, No. 2, pp. 199-211, 1990.



Boundary spanning (2/2)

comitters are students or have official jobs



- opportunity to discuss with other engineers
- ability to keep pace of latest developments in various areas
- facilitates inward flows of information

```
⊽ আ △ irc
                                                   • 0 X
            I have a trick, I have a windows desktop
icanhasarm
            it's so cool because you can use communicator
icanhasarm
            and do you know what communicator have?
             ANIMATED SMILEYS
            wow like caramail chat!
     bsdng
            a bit, except they are professional smileys
icanhasarm
            because communicator is a serious tool
icanhasarm
            look how professional it looks
icanhasarm
```



MAKE

VIRTOAL!

Virtual teams (1/2)

- members are based at different locations and connected electronically to each other
- teams are able to work continously on projects over 24 hours
- ▶ Young (1998): "powerful way of working, new production units of knowledge and innovation" BUT "the notion of control goes out of the window, along with management in its strict sense"
- ▶ Storey et al. (2005): few examples of successful implementation of such teams



Virtual Teams: the Wide-Awake Club, People Management, Vol. 4, No. 3, pp. 46-49, 1998.

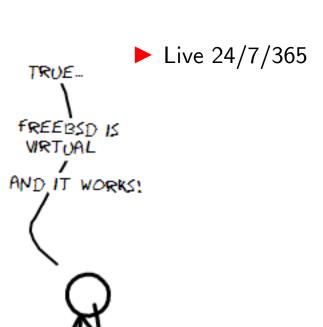
Storey, J., Salaman, G.,

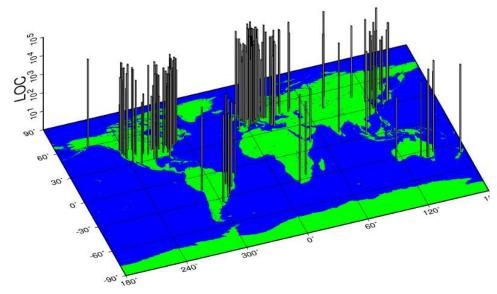
Managers of Innovation: Insights into Making Innovation Happen, Oxford, Blackwell, 2005.

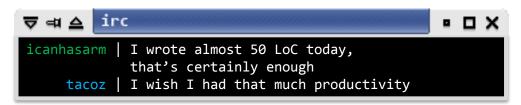


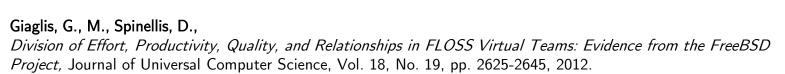
Virtual teams (2/2)

► FreeBSD: living proof that virtual teams can bring great success to an organization











Summary



FreeBSD traits

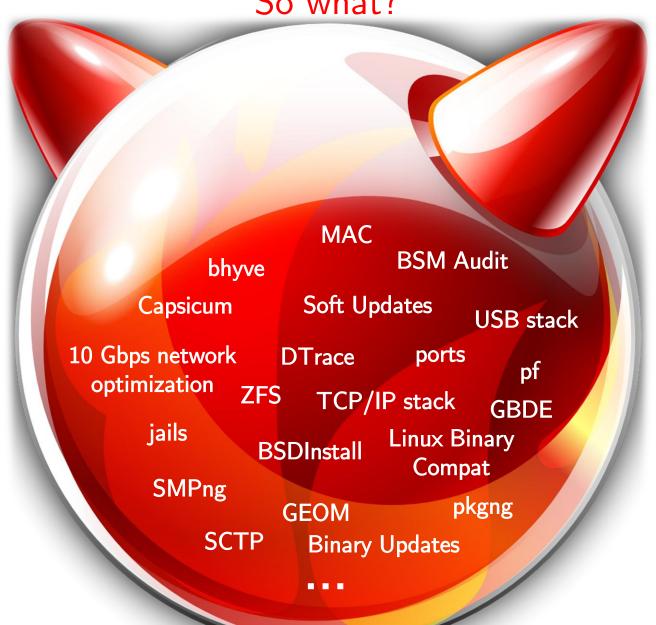
- ► A post-industrial organization
- ► A natural system
- ► A missionary structure
 - ► flat hierarchy
 - full decentralization
 - flexible and informal structure
 - norms as a mean of coordination and control
 - variety of interests and plurality of pursued goals
 - permeable boundaries between insiders and outsiders
 - use of advanced communication and computing technologies
 - little planning and control, no strict strategy but focus on adaptation instead



2013-02









Last thought

"[treat] employees as volunteers just as you treat customers as volunteers, because that's what they are. They volunteer the best part – theirs hearts and minds."

Covey, S., R., The 7 Habits of Highly Effective People, Free Press, 2004.



Questions?

Thanks to:

- FreeBSD Foundation and Logos for financial support
- pgj@, gianni@ for the organization
- **xkcd.com**, **cmx.io** for illustrations
- ▶ friends at #telestore for feedback and inspiration

