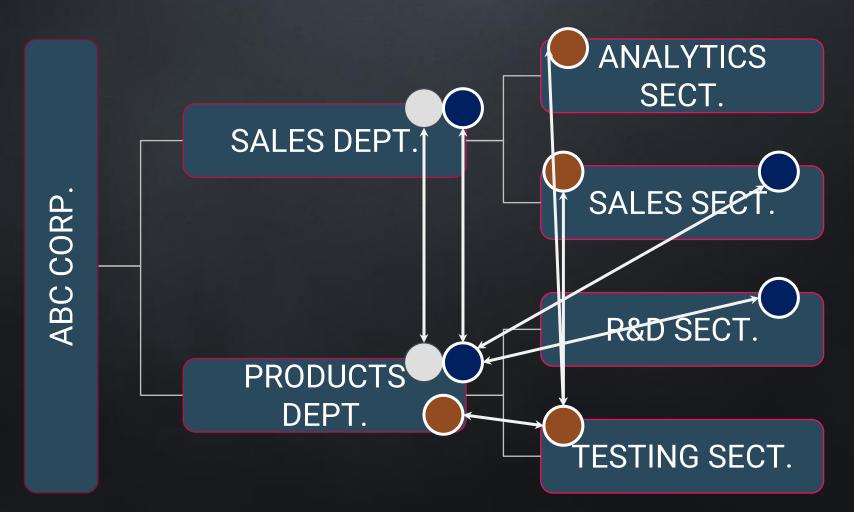
#### Software Engineering Conference Russia 2018

October 12-13 Moscow

# DISTRIBUTED LEADERSHIP AND SYSARCHI

ALEKSANDR TURKHANOV SCHOOL OF SYSTEMS MANAGEMENT

## **BUSINESS ACTORS**



## HISTORY

 US DOD AND ISRAELI SPECIAL TASK FORCES (1980-1990)
 JAPANESE CORPORATIONS - MATSUSHITA (1990s)
 EUROCONTROL (2000s)
 LARGE EU AND AMERICAN CORPORATIONS -BOEING (2010s)

## DISTRIBUTED LEADERSHIP RESOLVES 'MATRIX' PROBLEMS

CAPABILITY OF EVERY TEAM MEMBER TO FOCUS AND DIRECT TEAM'S WORK EFFORTS FOR ALL PLANNED LIFE CYCLE PRACTICES OF SYSTEM-OF-INTEREST (SOI) YOU MAY NOT CONTROL BUDGET, SCHEDULE, TASKS EVEN, BUT YOU ALWAYS CAN CONTROL TEAM'S ATTENTION

# TEAM'S ATTENTION IS THE HIDDEN RESOURCE OF EVERY PROJECT



#### FOCUS AND FLOW IN TEAMS

 4 OBJECTS CHUNK IN WORKING MEMORY
 KEY THING IS NOT TO LOSE THEM UNTIL REASONING IS COMPLETED AND YOU HAVE THE RESULT OF THINKING
 SWITCHING BETWEEN OBJECT CHUNKS, THAT'S A LOGIC
 SPEED IS EVERYTHING BECAUSE ATTENTION SPAN IS 20-40 SECONDS ONLY
 SYSTEMS THINKING SUPPORTED WITH SYSARCHI GIVES YOU FRAMEWORK TO CONTROL PERSONAL AND TEAM ATTENTION

### DISTRIBUTED LEADERSHIP ENABLERS

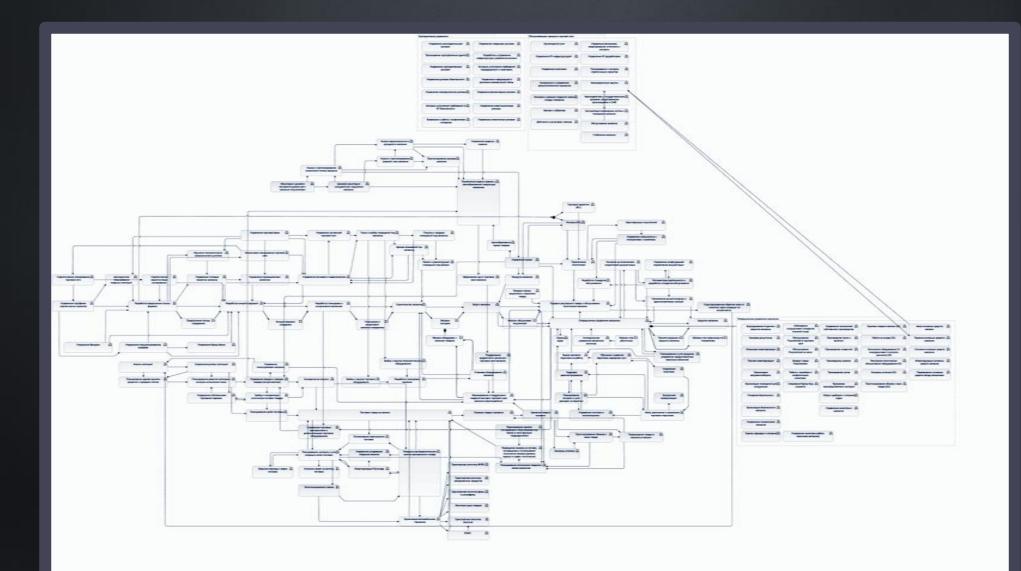
 THE SAME CONCEPTS FOR EACH TEAM MEMBER
 TEAM RESOURCE MANAGEMENT PRACTICES
 SAME SYSTEMS THINKING PATTERNS
 SEPARATION OF CONCERNS AND SYSTEM BREAKDOWNS SUPPORT OBJECTS CHUNKING
 SYSARCHI MODEL IN REPOSITORY GIVES TEAM MEMBERS IDEA HOW THE WHOLE SYSTEM AND PROJECT WORK AND WHAT IS IMPORTANT IT'S ALL ABOUT PEOPLE! 'STAKEHOLDERS'

#### **NEW TERM'S MEANING**

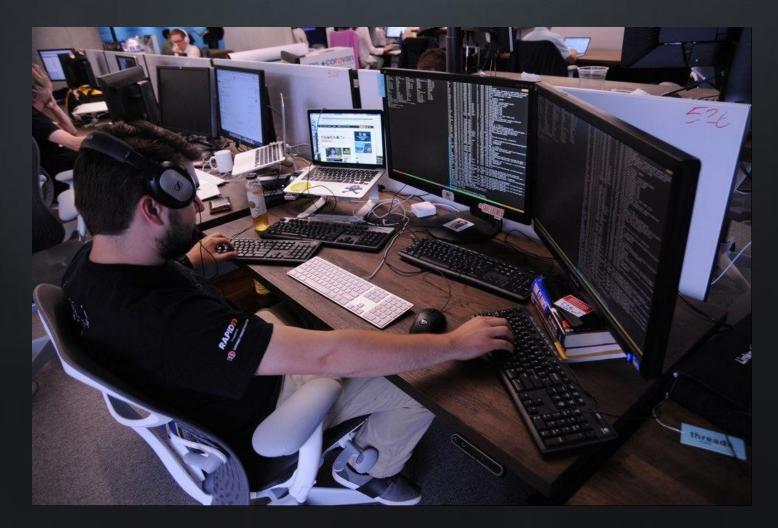
□ 18 CENTURY IN GAMBLING ONLY 1968 ANSOFF DECLARES STAKEHOLDING PART OF **CORPORATE STRATEGY 1984** FREEMAN PUBLISHES 'STRATEGIC MANAGEMENT: A STAKEHOLDER APPROACH' **1996 TONY BLAIR DESCRIBES STAKEHOLDER ECONOMY** 

#### **KEY OBJECT OF ATTENTION IN 'MATRIX'**

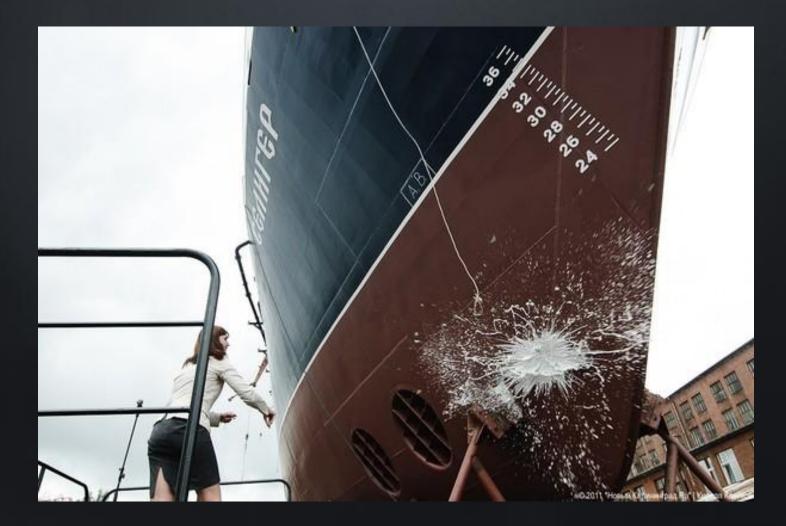
200-300 STAKEHOLDER ROLES PER INDUSTRY. LEARN THAT AND YOU CAN PREDICT PROFESSIONAL BEHAVIOR OF PEOPLE.



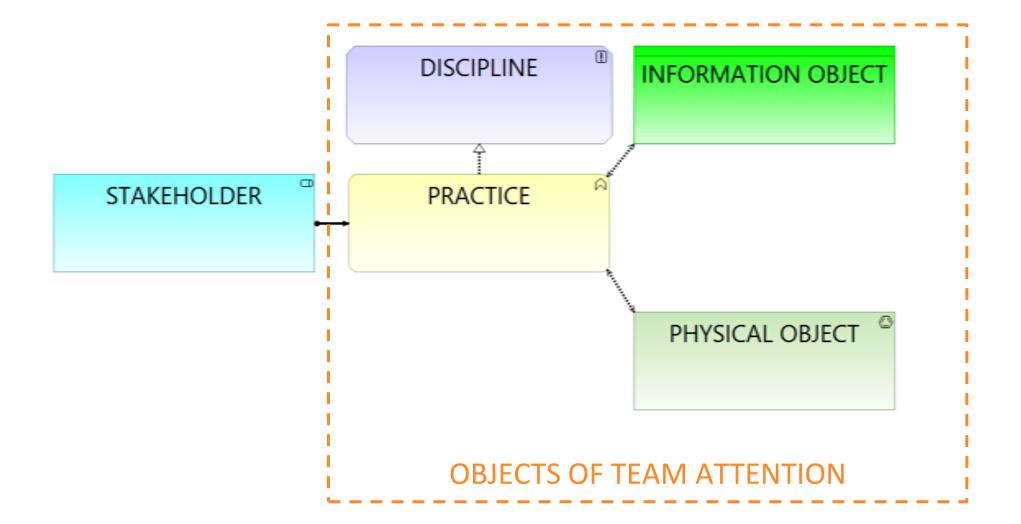
# SAO, SUBJECT-ACTION-OBJECT



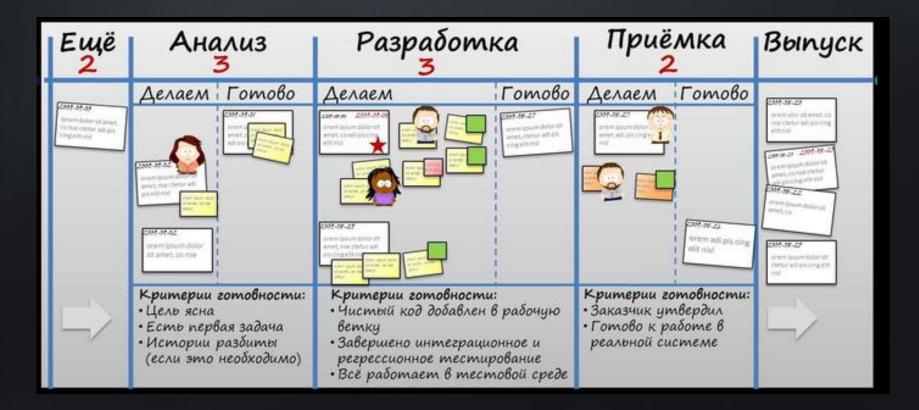
#### PRACTICE DISCIPLINE EXPLAINS ACTIONS



#### **ATTENTION AND STAKEHOLDER CONNECTION**



# KANBAN BECAME COMMON BUT STILL HAS CONS

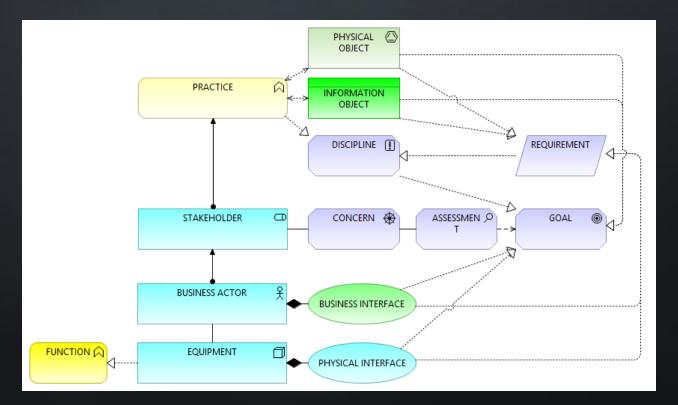




# NEYROKOD

Fractal data organization system

# SYSARCHI BASED ON ARCHIMATE 3.0 STATES KEY OBJECTS OF ATTENTION

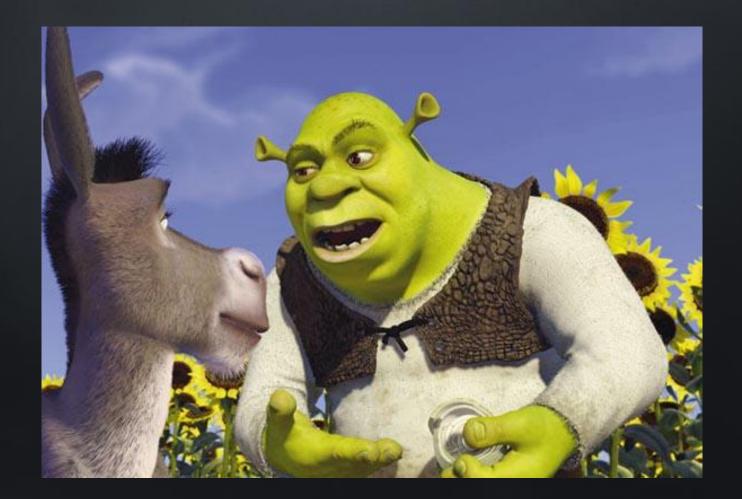


#### **SMALL FONT IS INTENDED**

#### **SYSARCHI VS. FRACTAL**

LICENSE
 MODELS COMPLEXITY
 MODELLING VELOCITY
 SOURCE CODE
 MODEL TO TEXT PARSING

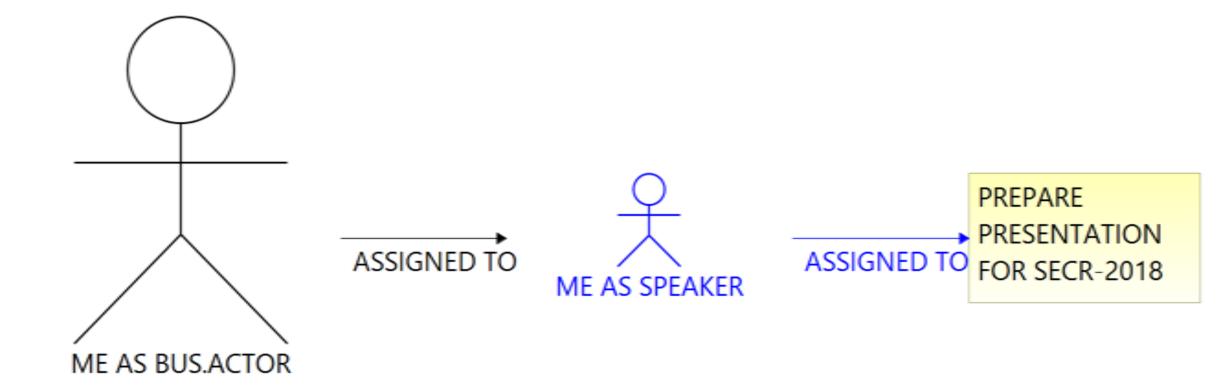
#### THREE-PART THEORY OF MIND MODEL

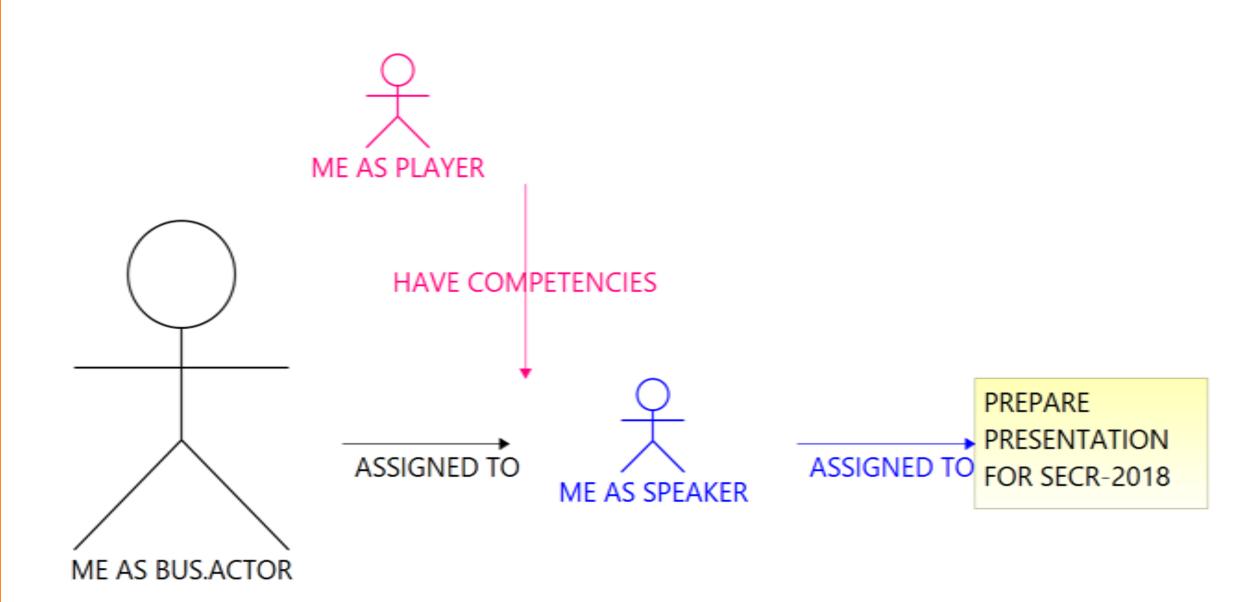


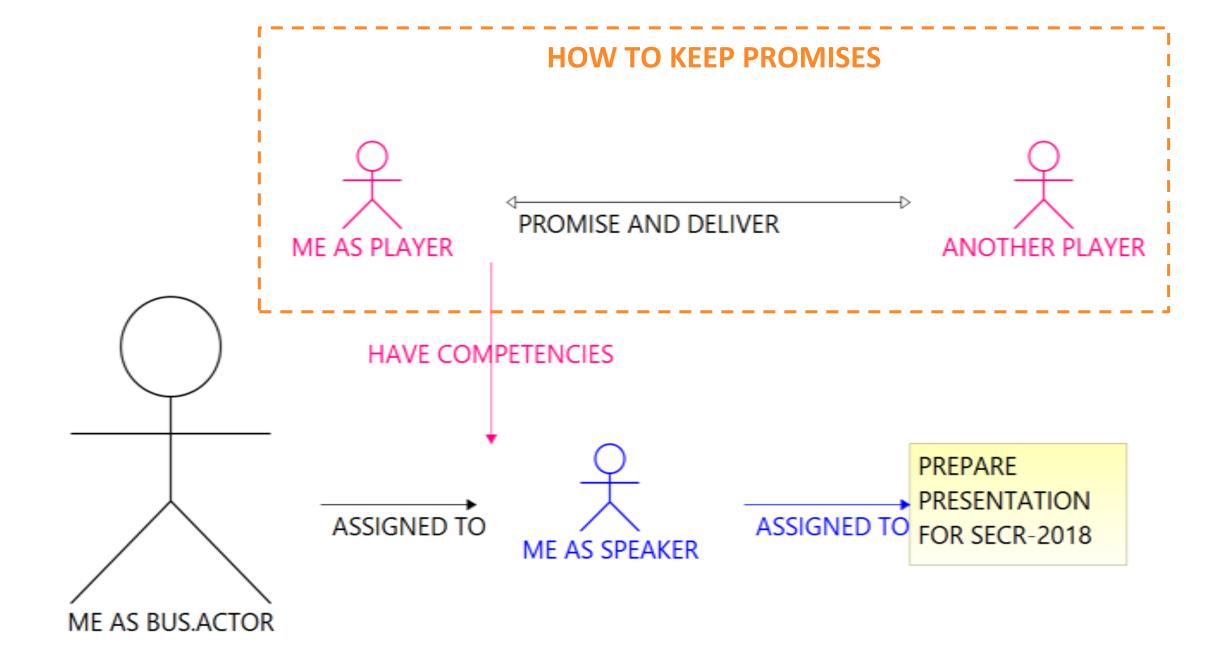
Here I am as business actor
and I have task list:
prepare presentation for SECR-2018
discover architecture modelling tool requirements
buy and change bulbs

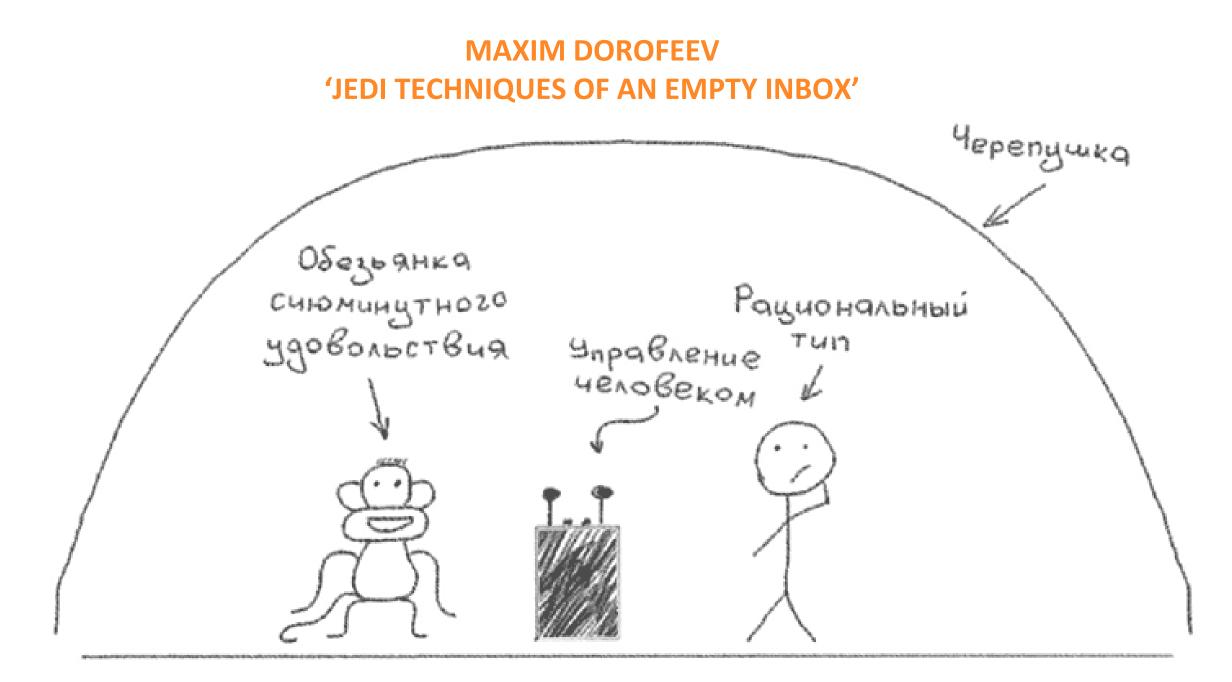
TASK	PRACTICE
prepare presentation for SECR-2018	PRESENTING
discover architecture modelling tool requirements	REQUIREMENTS ENGINEERING
buy and change bulbs	HOUSEKEEPING

TASK	PRACTICE	STAKEHOLDER
prepare presentation for SECR-2018	PRESENTING	<i>SPEAKER</i>
discover architecture modelling tool requirements	REQUIREMENTS ENGINEERING	BUSINESS ANALYST
buy and change bulbs	HOUSEKEEPING	HOUSEKEEPER









## SEPARATION OF CONCERNS

STAKEHOLDER		PRACTI	CE	
PLAYER		ACTIVI	TY	
BUSINESS ACTOR		CAPABILI	TY	
TEAM		SOI LIFE CYC	LE	
WHAT IS NEED TO BE FIXED IN PERSONS AND IN TEAMS				

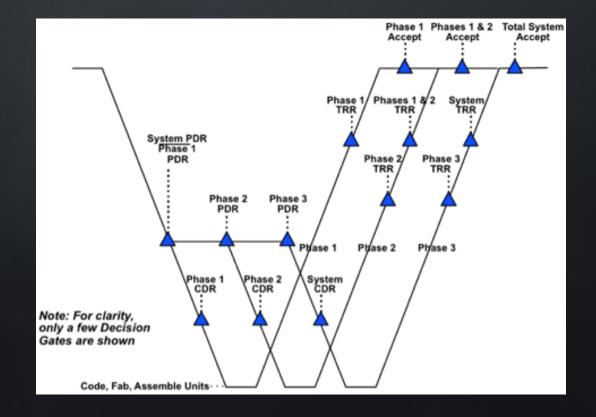
# MULTIDISCIPLINARITY OF DISTRIBUTED LEADERSHIP

STAKEHOLDER	STAKEHOLDER STAGECRAFT AND LEADERSHIP			
PLAYER		PLAYE	R STAG	ECRAFT AND LEADERSHIP
BUSINESS ACTOR			BUSINESS FUNCTION MANAGEMENT	
TEAM			TEAMS MANAGEMENT	
DIFFERENT SETS OF ORGANIZATIONAL AND TECHNICAL SOLUTIONS				

## **ENGINEERING OF TEAMS**

GROUP OF PEOPLE WITH SET OF COMPLEMENTARY SKILLS ENOUGH TO DELIVER A TASK, JOB OR PROJECT

#### BUT WHAT WITH THE EVOLUTIONARY LIFE CYCLE MODELS?



## TEAM AS A SYSTEM



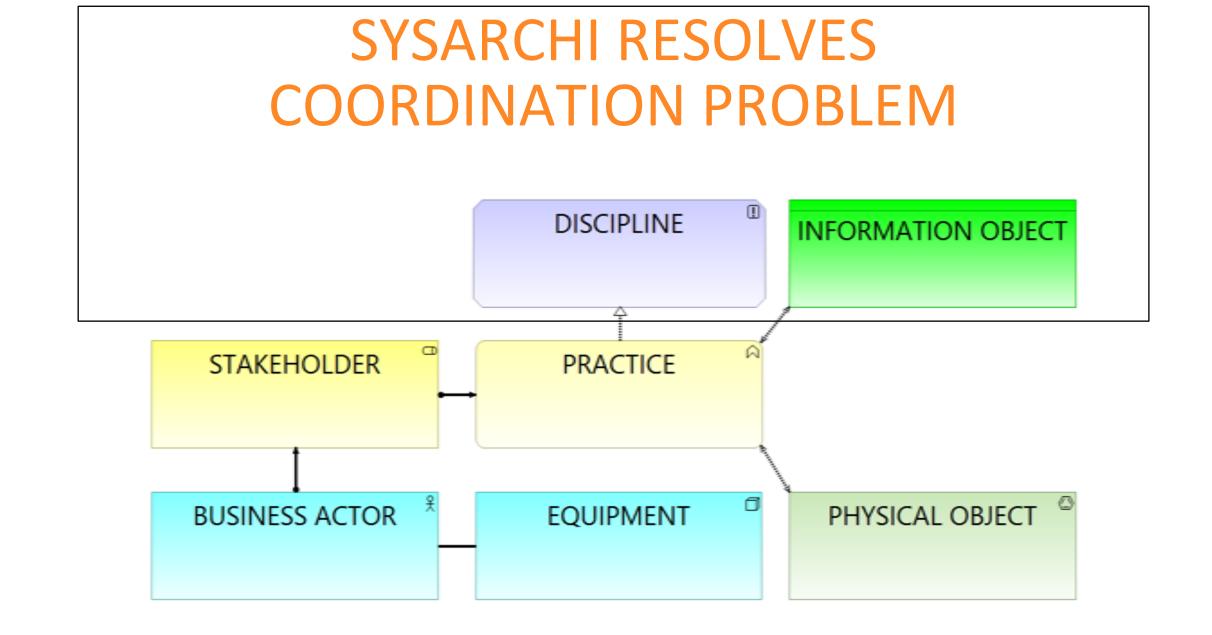
#### 'JUST SPECIALISTS' STAKEHOLDER IN REGARDS TO SOI

# FUNCTION AND CONSTRUCTION OF TEAM IN DISTRIBUTED LEADERSHIP

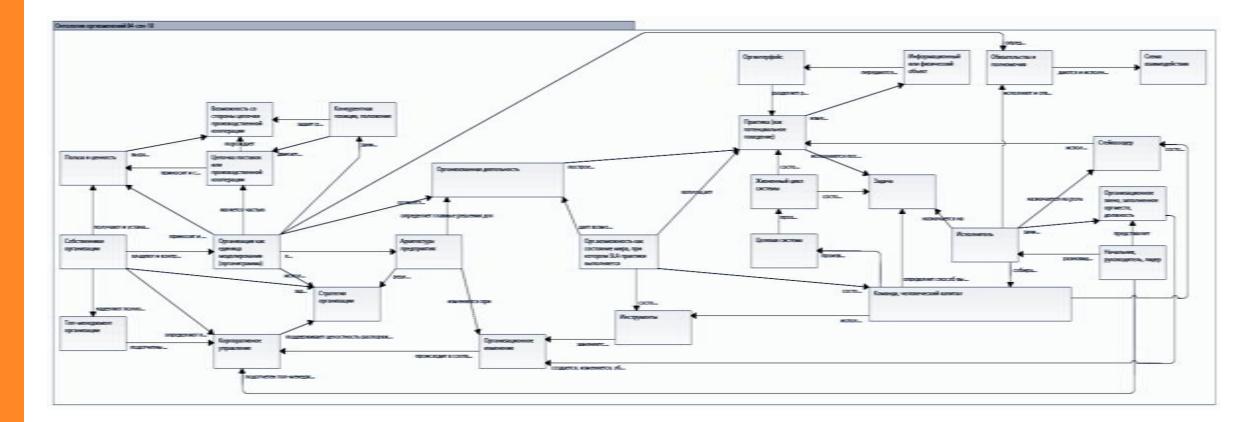
ALL STAKEHOLDERS REQUIRED TO PERFORM LIFE CYCLE OF SYSTEM-OF-INTEREST + BUSINESS ACTORS WITH NEEDED AUTHORITY TO APPLY RESOURCES

# MIND READERS ARE ON VACATION!





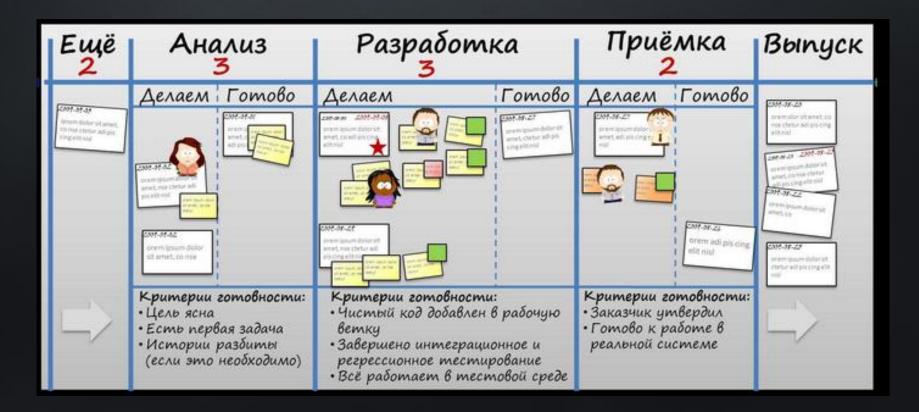
# TEAM INTERNAL LOGIC SHOULD BE BROUGHT TO DAYLIGHT



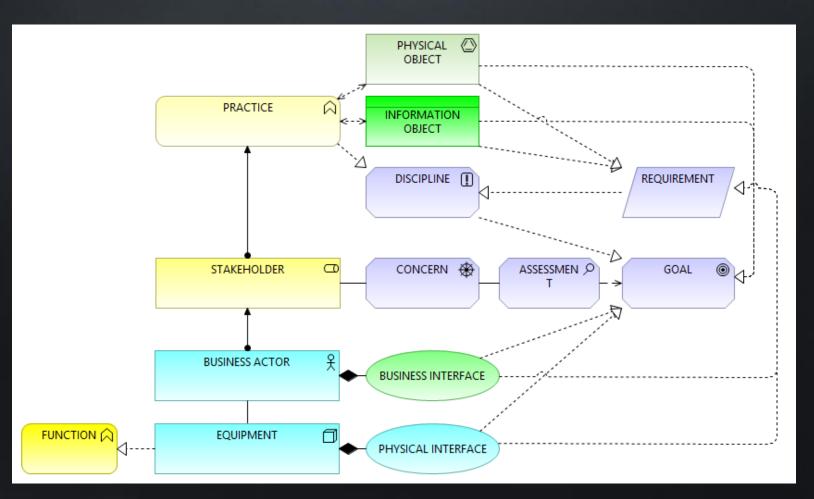
### **ONTOLOGY EXCAVATION**



# EXOCORTEX ALLOWS TO COORDINATE (SUBJECT-ACTION-OBJECT)



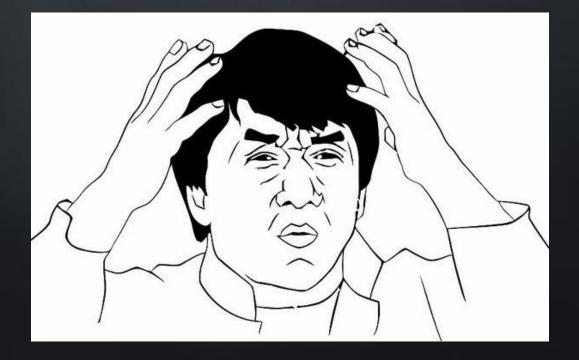
# KANBAN FOR DEVELOPMENT + PROJECT ARCHITECTURE MODEL



## UNIFIED MULTIMODEL OF SYSTEM-OF-INTEREST AND TASKS

BUT PEOPLE ARE NOT PERFECT SO EVEN WITH SUCH MODEL IT IS DIFFICULT FOR THEM TO PAY ATTENTION

# I NEED STAKEHOLDER, WHY DO I GET A WHOLE PERSON



# **ONE-TO-ONE MEETINGS**



### **BRUCE TULGAN**

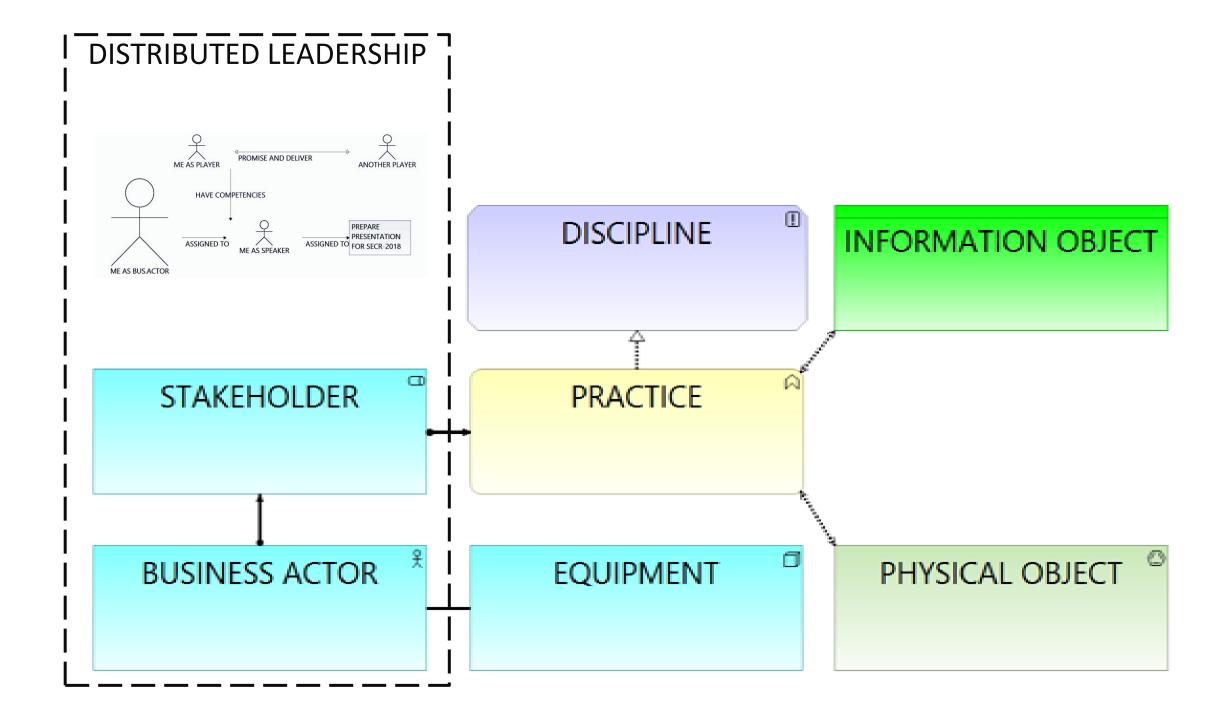
БЫТЬ НАЧАЛЬНИКОМ ЭТО НОРМАЛЬНО ПОШАГОВЫЙ ПЛАН, КОТОРЫЙ ПОМОЖЕТ ВАМ СТАТЬ ТЕМ МЕНЕДЖЕРОМ. В КОТОРОМ НУЖДАЕТСЯ ВАША КОМАНДА БРЮС ТУЛГАН

BCE НАЧАЛЬНИКИ ДЕЛАЮТ ЭТО ПОШАГОВОЕ РУКСВОДСТВО ПО РЕШЕНИЮ ВСЕХ ПРОБЛЕМ МЕНЕДЖЕРА БРЮС ТУЛГАН

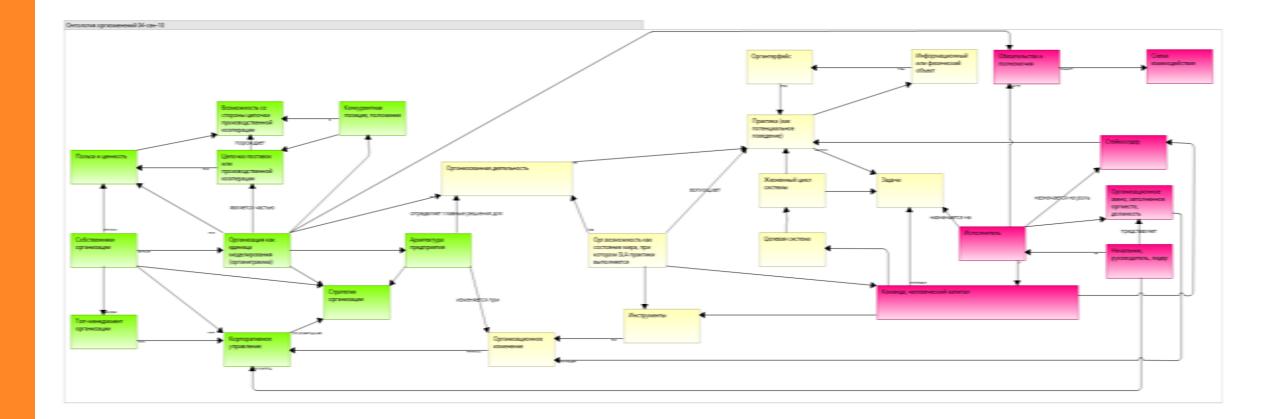
ozoni

# 5 P.M. ALL MEETINGS ARE OVER, TIME TO WORK





#### LEADERSHIP IS EVERYONE'S RESPONSIBILITY (IF YOU TECHNOLOGY SUPPORT THAT)



#### **TECHNOLOGY DESCRIPTION**

# <u>https://www.archimatetool.com</u> <u>https://yadi.sk/i/DgjcxXh3yPjQIA</u>



#### LEADERSHIP

 YOU SHOULD FOLLOW ALL PRACTICES, SO IT IS DISTRIBUTED
 CAN AND SHOULD BE TRAINED, ELSE SOI LCM WILL NOT BE FULFILLED
 AGREEMENTS SHOULD BE DONE FORMALLY IN MBSE TOOL, BECAUSE SMART BECAME TOO MUCH COMPLICATED

### **MY CONTACTS**

- TURKHANOV ALEKSANDR
- EMAIL: ALEX.TURKHANOV@GMAIL.COM
- **PHONE:** +7 (925) 673 -4484
- <u>HTTPS://WWW.FACEBOOK.COM/ALEX.TURKHANOV</u>
- <u>HTTP://SDU2020.BLOGSPOT.COM</u>
- <u>HTTPS://WWW.LINKEDIN.COM/IN/ALEX-TURKHANOV-</u> <u>885A043B/</u>