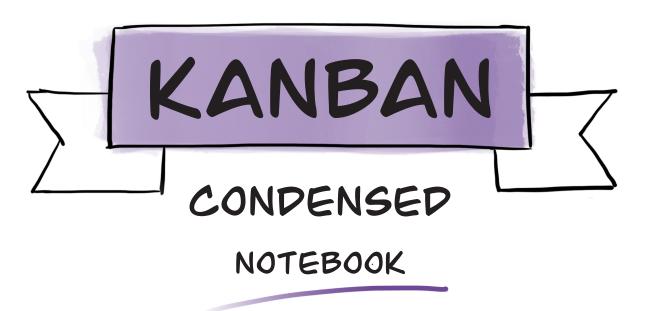
ILLUSTRATED



PAWEL LEWIŃSKI JAKUB DRZAZGA MARCIN BIEDROŃ



ILLUSTRATED ESSENTIAL KANBAN CONDENSED

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FIRST VERSION, MARCH 2021

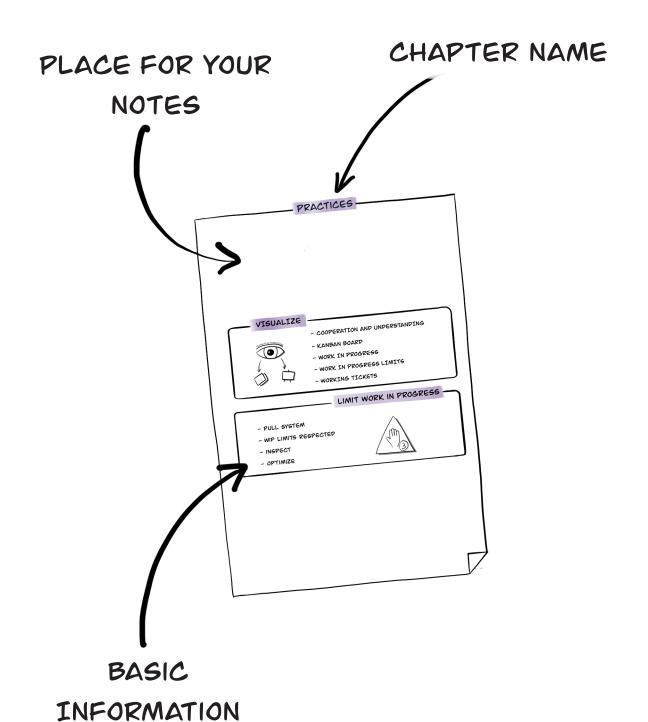
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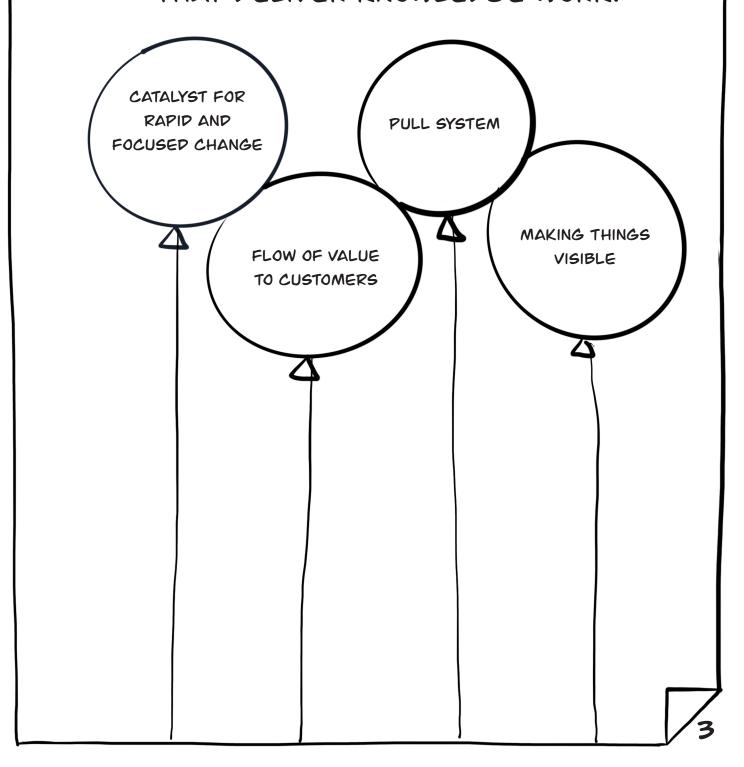


HOW TO USE VALUES KANBAN AGENDAS PRINCIPLES FLOW SYSTEM CAPENCES PRACTICES LITMUS TEST ROLES STATIK METRICS

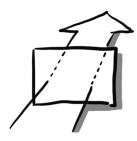
AUTHORS



THIS IS YOUR PERSONAL NOTEBOOK AN INSPIRATION PLACE FOR GATHERING KANBAN KNOWLEDGE KANBAN IS A METHOD FOR DEFINING, MANAGING, AND IMPROVING SERVICES THAT DELIVER KNOWLEDGE WORK.



-TRANSPARENCY



- ACCESS TO INFORMATION
- DIRECT COMMUNICATION
- SHARED UNDERSTANDING

BALANCE

- SYSTEM STABILITY
- FLOW IMPROVEMENTS
- DEMAND AND CAPABILITY



COLLABORATION -



- TEAMWORK
- IMPROVE THE WAY PEOPLE WORK TOGETHER
- EVERY LEVEL OF THE ORGANIZATION

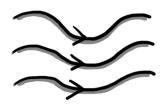
VALUES

CUSTOMER FOCUS

- GOAL OF THE SYSTEM
- VALUE DELIVERY
- FOCUS ON CUSTOMER NEEDS AND EXPECTATIONS



FLOW



- FLOW IS THE MOVEMENT OF WORK
- OBSERVATION
- CONTINUOUS IMPROVEMENT

LEADERSHIP

- TAKE RESPONSIBILITY, BE ACCOUNTABLE
- AT ALL LEVELS
- LEAD BY EXAMPLE



UNDERSTANDING



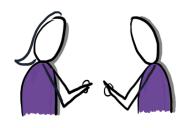
- SELF-KNOWLEDGE: INDIVIDUAL, TEAM, ORGANIZATION
- KNOWING COMMITMENT POINTS
- IMPROVEMENT

AGREEMENT

- COMMITMENT TO MOVE TOWARD GOALS
- CHANGE MANAGEMENT
- BENEFITS FROM DIVERSITY



RESPECT



- RECOGNITION OF CAPABILITY, CIRCUMSTANCES, CONTEXT
- TRUST & EMPOWERMENT
- AUTONOMY

SUSTAINABILITY



- LOOK INWARD
- STARTING POINT FOR CHANGE
- SUSTAINABLE PACE OF WORK
- PERFORMANCE IMPROVEMENTS
- BALANCE DEMAND WITH CAPABILITY

SERVICE-ORIENTATION

- LOOK OUTWARD
- CUSTOMER SATISFACTION
- FIT FOR PURPOSE
- PERFORMANCE
- VALUE DELIVERY



SURVIVABILITY



- LOOK FORWARD TO THE FUTURE
- EXPERIMENTING
- ADAPTATION TO CHANGING MARKET
- CONSTANT CHALLENGE
- SAFE TO FAIL ENVIRONMENT

PRINCIPLES.



CHANGE MANAGEMENT



START WITH WHAT YOU DO NOW

- RESPECT EXISTING ROLES
- UNDERSTAND THE PROCESS



AGREE TO PURSUE IMPROVEMENT THROUGH EVOLUTIONARY CHANGE



ENCOURAGE ACTS OF LEADERSHIP AT EVERY LEVEL



SERVICE DELIVERY

ORGANIZATION IS AN ECOSYSTEM OF INTERDEPENDENT SERVICES



UNDERSTAND AND FOCUS ON CUSTOMER NEEDS AND EXPECTATIONS



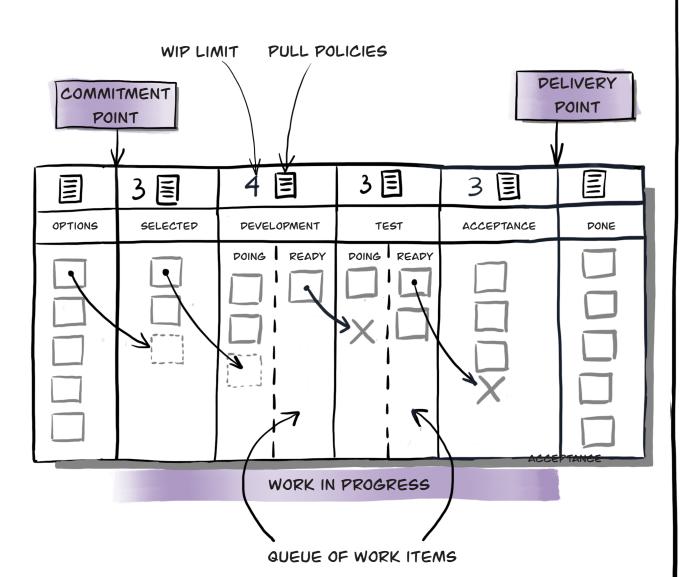
MANAGE THE WORK, LET PEOPLE SELF-ORGANIZE AROUND IT



EVOLVE POLICIES TO IMPROVE CUSTOMER AND BUSINESS OUTCOMES

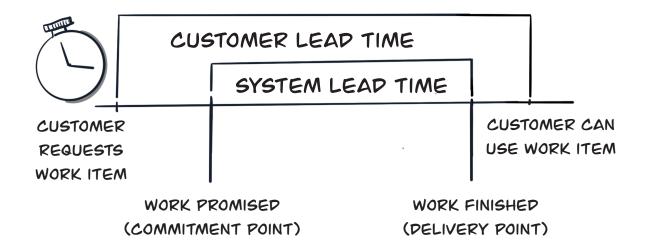
FLOW SYSTEM

PULL SYSTEM
THE NEW WORK ITEM IS PULLED
INTO SYSTEM WHEN WIP LIMIT
ALLOWS





FLOW SYSTEM



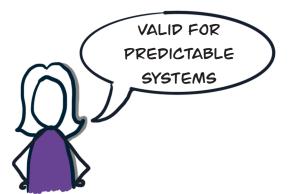
LITTLE'S LAW

AV. THROUGHPUT = $\frac{\text{AV. WORK IN PROGRESS}}{\text{AV. THROUGHPUT}}$ AV. SYSTEM LEAD TIME

> QUEUEING THEORY ROCKS!

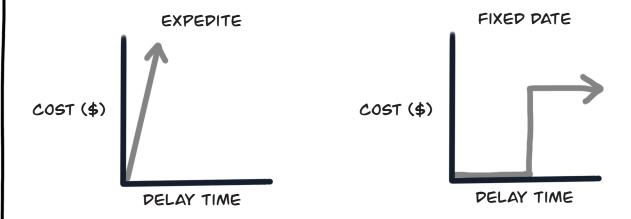


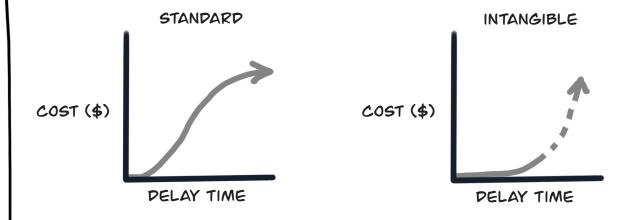
JOHN LITTLE (1928)

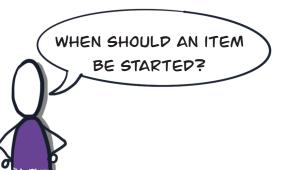


FLOW SYSTEM

CLASS OF SERVICES MAPPED TO COST OF DELAY







PRACTICES

VISUALIZE



- SHOW WORK & ITS FLOW
- VISUALIZE RISKS
- KANBAN BOARD
- WORK IN PROGRESS LIMITS

LIMIT WORK IN PROGRESS

- PULL SYSTEM
- RESPECTED
- INSPECT + APAPT
- FOCUS



MANAGE FLOW



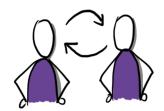
- MAXIMIZE VALUE DELIVERED
- SYSTEM PREDICTABILITY
- SERVICE LEVEL AGREEMENT
- CLASSES OF SERVICES
- COST OF DELAY

EXPLICIT POLICIES

- DEFINE THE FLOW
- DEFINE THE WHOLE PROCESS
- EVOLUTION
- RESPECT THE RULES
- TRANSPARENCY
- CONSTRAINS & CONTROL DECISIONS



FEEDBACK LOOPS



- ENABLE EVOLUTIONARY CHANGE
- INFORMATION EXCHANGE
- OBSERVE + CHANGE
- INSPECT + ADAPT
- 7 CAPENCES

IMPROVE COLLABORATIVELY EVOLVE EXPERIMENTALLY

- EMPIRICAL OBSERVATIONS
- DATA-DRIVEN EXPERIMENTS
- USE MODELS
- DEVELOP HYPOTHESES
- INTRODUCE CHANGE
- OBSERVE & MEASURE THE RESULTS



CAPENCES . FEEDBACK LOOPS OPERATIONS REVIEW RISK REVIEW STRATEGY REVIEW SERVICE DELIVERY REVIEW DELIVERY REPLENISHMENT PLANNING MEETING MEETING KANBAN MEETING

CAPENCES -

STRATEGY REVIEW

- USUALLY QUARTERLY
- FIT FOR PURPOSE
- ADAPT TO FITNESS LANDSCAPE

OPERATIONS REVIEW

- USUALLY MONTHLY
- MAXIMIZE THE DELIVERY OF VALUE
- BALANCE SERVICES
- DEPENDENCIES MANAGEMENT

RISK REVIEW

- USUALLY MONTHLY
- RISK IDENTIFICATION
- RISK MITIGATION
- BLOCKER CLUSTERING

SERVICE DELIVERY

REVIEW

- USUALLY BI-WEEKLY
- EXAMINE AND IMPROVE THE SERVICE
- SLA/E REVIEW

CAPENCES -

REPLENISHMENT MEETING

- USUALLY WEEKLY
- REVIEW OPTIONS
- PULL WORK ITEMS

THE KANBAN

MEETING

- USUALLY DAILY
- COORDINATION
- UNBLOCKING
- SELF-ORGANIZATION
- FLOW MANAGEMENT

DELIVERY PLANNING

MEETING

- USUALLY WEEKLY
- MONITOR & PLAN DELIVERIES

THE KANBAN	LITMUS	TEST
------------	--------	------



I. HAS MANAGEMENT BEHAVIOUR CHANGED TO ENABLE KANBAN?	YES	NO
2. HAS THE CUSTOMER INTERFACE CHANGED IN LINE WITH KANBAN?		
3. HAS THE CUSTOMER CONTRACT CHANGED INFORMED BY KANBAN?		
4. HAS YOUR SERVICE DELIVERY BUSINESS MODEL CHANGED TO EXPLOIT KANBAN?		

STATIK

SYSTEM THINKING APPROACH TO INTRODUCING KANBAN





IDENTIFY SERVICES

HOW DO WE OPERATE NOW? WHAT SERVICES DO WE HAVE?

FIT FOR PURPOSE

WHO IS OUR CUSTOMER?
CUSTOMER'S NEEDS & EXPECTATIONS
CUSTOMER FITNESS CRITERIA





SOURCES OF DISSATISFACTION

INTERNAL EXTERNAL

STATIK

SYSTEM THINKING APPROACH TO INTRODUCING KANBAN





ANALYZE DEMAND

CUSTOMER EXPECTATIONS
SOURCES
NATURE
WORK THAT ENTERS THE SYSTEM

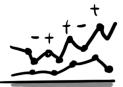
ANALYZE CAPABILITIES

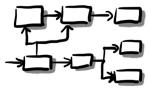
PREDICTABILITY

DEMAND VS CAPABILITY

DATA TRENDS

WORK THAT LEAVES THE SYSTEM





MODEL THE WORKFLOW

WORKFLOW FOR EACH TYPE OF DEMAND ORGANIZE WORK, NOT PEOPLE FLOW STATES REFLECT LEARNING ACTIVITIES INSIDE-OUT

STATIK

SYSTEM THINKING APPROACH TO INTRODUCING KANBAN





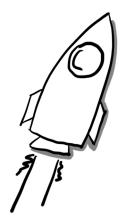
DISCOVER CLASSES OF SERVICE

CLASSIFY DIFFERENT WORK ITEMS
POLICIES FOR EACH CLASS
COST OF DELAY
DEFINE SYSTEM LEVEL AGREEMENTS

DESIGN KANBAN SYSTEM

BOARD & CARDS CADENCES POLICIES WIP LIMITS



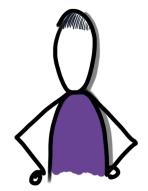


SOCIALIZE THE SYSTEM & BOARD

NEGOTIATE IMPLEMENTATION USE & IMPROVE

ROLES

START WITH WHAT YOU DO NOW ... BUT COVER THESE



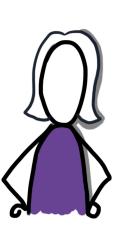
SERVICE REQUEST MANAGER

RESPONSIBLE FOR ACCOUNTABLE FOR

SERVICE DELIVERY MANAGER

RESPONSIBLE FOR

ACCOUNTABLE FOR



LEAD TIME

THROUGHPUT

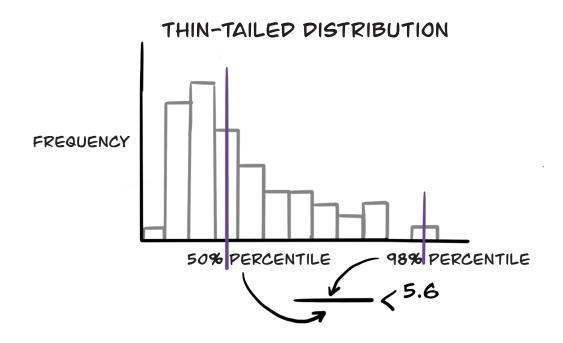
FLOW EFFICIENCY

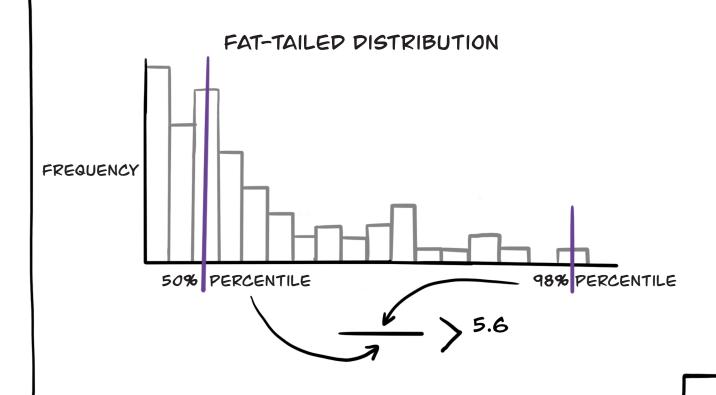
WORK IN PROGRESS

AGE OF WIP

METRICS

LEAD TIME HISTOGRAM





METRICS

CUMULATIVE FLOW DIAGRAM

NUMER OF WORK IN PROGRESS

NORK ITEMS

APPROX. AVERAGE
SYSTEM LEAD TIME

COMMITED

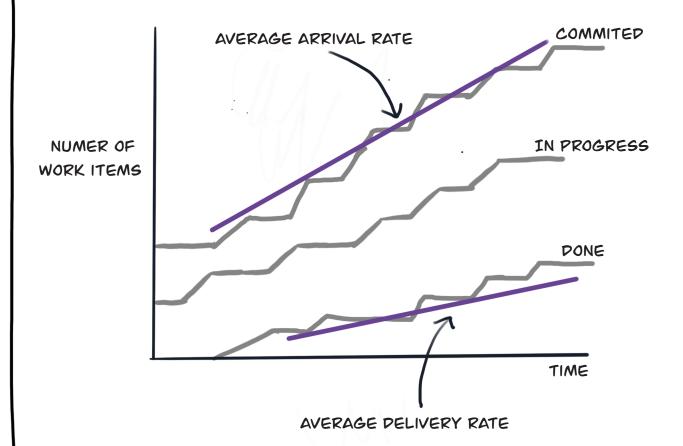
IN PROGRESS

DONE

CUMULATIVE NUMBER OF ARRIVALS
AND DEPARTURES IN A PROCESS

METRICS

CUMULATIVE FLOW DIAGRAM



CUMULATIVE NUMBER OF ARRIVALS AND DEPARTURES IN A PROCESS

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MARCIN BIEDROŃ

BASED ON ESSENTIAL KANBAN CONDENSED BY



DAVID J ANDERSON



ANDY CARMICHAEL

