

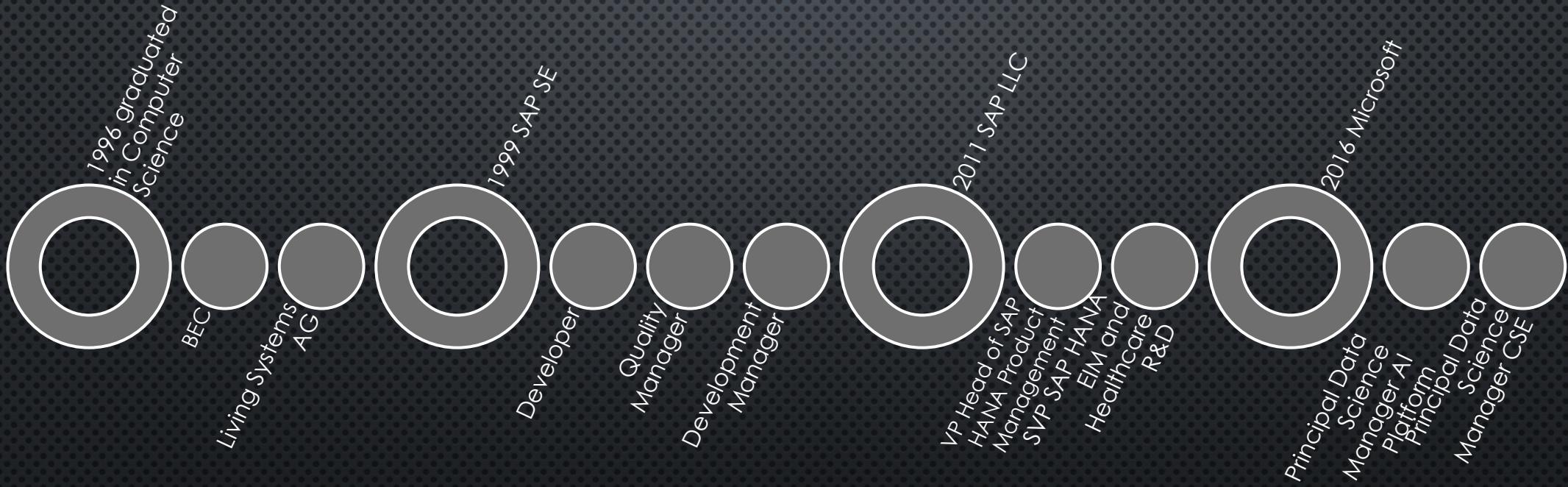
ILLUMINATE AI

BARBARA STORTZ

AGENDA:

- A BIT ABOUT ME
- THE EUROPEAN COMMISSION AI REGULATION PAPER
 - REASONS FOR THE REGULATION PROPOSAL
 - PROHIBITED AI PRACTICES
 - WHAT ARE HIGH-RISK AI SYSTEMS
 - REQUIREMENTS FOR HIGH-RISK AI SYSTEMS
 - AND WHAT ELSE
 - PENALTIES FOR NON-COMPLIANCE
 - NEXT STEPS

BARBARA STORTZ - CV





MY CURRENT ROLE: DATA & APPLIED SCIENCE

- MICROSOFT COMMERCIAL SOFTWARE ENGINEERING:
A GLOBAL ENGINEERING ORGANIZATION THAT WORKS DIRECTLY WITH THE LARGEST COMPANIES AND NON-PROFITS IN THE WORLD TO TACKLE THEIR MOST SIGNIFICANT TECHNICAL CHALLENGES.

EUROPEAN COMMISSION AI – PROPOSAL FOR A REGULATION

- PUBLISHED 21 APRIL 2021
- LAYING DOWN HARMONIZED RULES ON ARTIFICIAL INTELLIGENCE (ARTIFICIAL INTELLIGENCE ACT) AND AMENDING CERTAIN UNION LEGISLATIVE ACTS

REASONS FOR THIS REGULATION PROPOSAL

- THERE IS NO WAY AROUND AI
- AI INTRODUCES NEW RISKS
- COORDINATED EUROPEAN APPROACH TO AI ETHICS
 - ENSURE THAT AI SYSTEMS ARE SAFE AND RESPECT EXISTING LAW ON FUNDAMENTAL RIGHTS AND UNION VALUES
 - ENSURE LEGAL CERTAINTY TO FACILITATE INVESTMENT AND INNOVATION IN AI
 - ENHANCE GOVERNANCE AND EFFECTIVE ENFORCEMENT OF EXISTING LAW ON FUNDAMENTAL RIGHTS
 - RIGHTS AND SAFETY REQUIREMENTS APPLICABLE TO AI SYSTEMS
 - FACILITATE THE DEVELOPMENT OF A SINGLE MARKET FOR LAWFUL, SAFE AND TRUSTWORTHY AI APPLICATIONS AND PREVENT MARKET FRAGMENTATION.

PROHIBITED AI PRACTICES

- SOCIAL SCORING OF NATURAL PERSONS
- REALTIME REMOTE BIOMETRIC IDENTIFICATION IN PUBLIC SPACES FOR LAW ENFORCEMENT
- SUBLIMINAL TECHNIQUES, EXPLOIT VULNERABILITIES

WHAT ARE HIGH-RISK AI SYSTEMS?

- 'REAL-TIME' AND 'POST' REMOTE BIOMETRIC IDENTIFICATION SYSTEMS
- SAFETY COMPONENTS USED IN ROAD TRAFFIC, SUPPLY OF WATER, GAS, HEATING, ELECTRICITY
- EDUCATIONAL AND VOCATIONAL SYSTEMS USED FOR TRAINING OR ASSESSMENTS
- EMPLOYMENT AND PERSONNEL SYSTEMS
- CREDIT SCORE, CREDITWORTHINESS SYSTEMS
- EMERGENCY RESPONSE SYSTEMS
- LAW ENFORCEMENT SYSTEMS
- ASYLUM, MIGRATION, BORDER CONTROL SYSTEMS
- JUSTICE AND DEMOCRATIC PROCESSES

REQUIREMENTS FOR HIGH-RISK AI SYSTEMS

- QUALITY OF DATA SETS
- TECHNICAL DOCUMENTATION
- PROVISION OF INFORMATION TO USERS
- RECORD-KEEPING
- TRANSPARENCY
- HUMAN OVERSIGHT
- ROBUSTNESS
- ACCURACY
- CYBERSECURITY

ADDITIONAL REQUIREMENTS FOR HIGH-RISK AI SYSTEMS

- RISK MANAGEMENT SYSTEM
- DATA AND DATA GOVERNANCE

AND WHAT ELSE

- CONFORMITY ASSESSMENTS AFTER EVERY CHANGE
- MAKE IT CLEAR TO USERS THAT THEY DEAL WITH AN AI SYSTEM
- AI MODIFIED CONTENT E.G. IMAGE, VIDEO OR AUDIO MUST BE MARKED AS SUCH
- REGULATORY SANBOXES TO DEVELOP AND TEST INNOVATIVE AI
- PROPOSAL TO ESTABLISH THE "EUROPEAN ARTIFICIAL INTELLIGENCE BOARD"
- QUALITY MANAGEMENT SYSTEM
- OBLIGATIONS FOR PROVIDERS

PENALTIES FOR NON-COMPLIANCE

- ARTICLE 5 AND 10: 30M OR UP 6% OF TOTAL WORLDWIDE ANNUAL TURNOVER
- ANY OTHER: 20M OR UP TO 4% OF TOTAL WORLDWIDE ANNUAL TURNOVER
- WRONG NOTIFICATIONS: 10M OR UP TO 2% OF OF TOTAL WORLDWIDE ANNUAL TURNOVER

NEXT STEPS

- THE EUROPEAN PARLIAMENT AND THE MEMBER STATES WILL NEED TO ADOPT THE COMMISSION'S PROPOSALS ON A EUROPEAN APPROACH FOR ARTIFICIAL INTELLIGENCE AND ON MACHINERY PRODUCTS IN THE ORDINARY LEGISLATIVE PROCEDURE. ONCE ADOPTED, THE FINAL REGULATIONS WILL BE DIRECTLY APPLICABLE ACROSS THE EU.
- IN PARALLEL, THE COMMISSION WILL CONTINUE TO COLLABORATE WITH MEMBER STATES TO IMPLEMENT THE ACTIONS ANNOUNCED IN THE COORDINATED PLAN.

THANK YOU!

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