

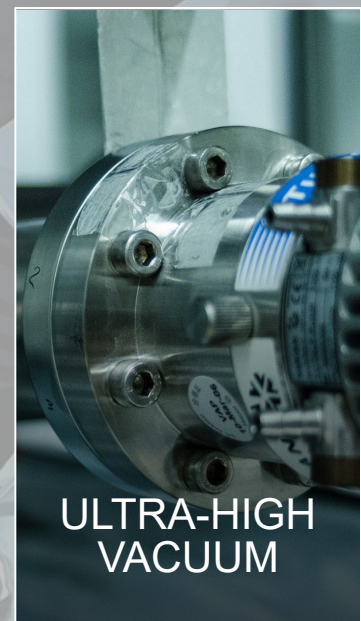


HONEYWELL QUANTUM SOLUTIONS

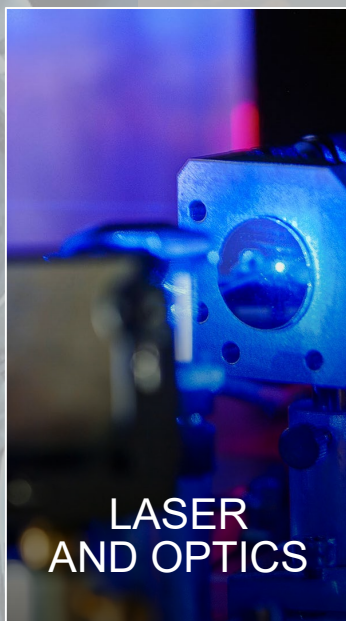
SHAPING THE FUTURE OF QUANTUM COMPUTING

SUHARE NUR, PhD, SENIOR OFFERING MANAGER
HONEYWELL QUANTUM SOLUTIONS

Honeywell



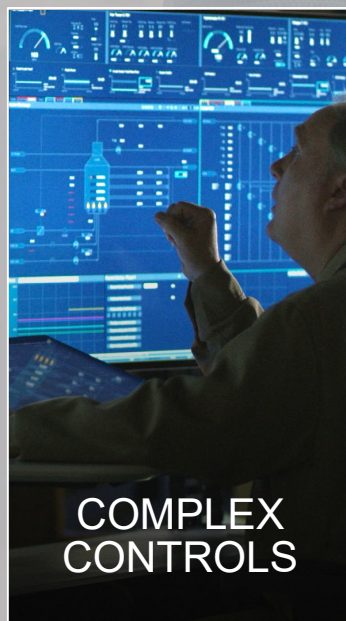
ULTRA-HIGH
VACUUM



LASER
AND OPTICS



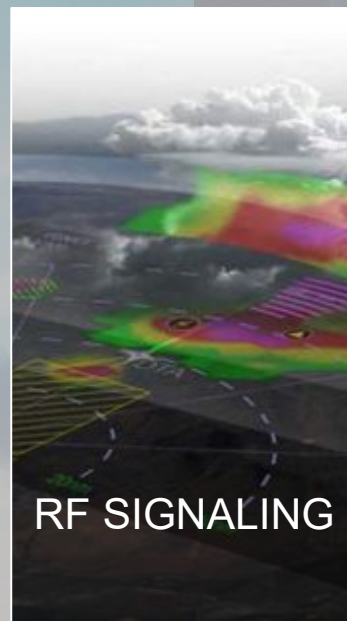
CRYOGENICS



COMPLEX
CONTROLS



MICRO-
FABRICATION



RF SIGNALING



MAGNETICS

HONEYWELL: **HONEYWELL IS FOUNDATIONAL TO** **DECADES OF INNOVATION** **QUANTUM COMPUTING**

HONEYWELL QUANTUM SOLUTIONS

SHAPING THE FUTURE OF QUANTUM COMPUTING

COMMERCIAL FOCUS
**100+ SCIENTISTS
AND ENGINEERS**

SCIENCE

Atomic,
Molecular, and
Optical Physicists

Theoretical
Physicists

Quantum Information
Scientists

ENGINEERING

Electrical
Mechanical
Optical
Systems
Software
Vacuum
Cryogenic



ROBUST TECHNOLOGY DEVELOPMENT

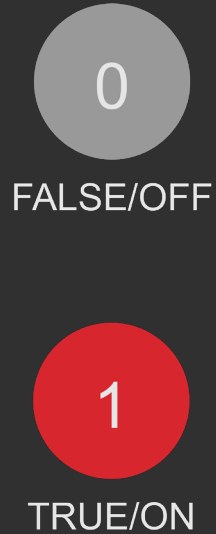
QUANTUM BREAKTHROUGHS

**QUANTUM COMPUTING PROMISES SOLUTIONS TO
PREVIOUSLY UNSOLVABLE PROBLEMS**

RAPID NEW DRUG DESIGN
REDUCE FOOD WASTE
MANAGE AIR TRAFFIC
OPTIMIZE INDUSTRIAL PLANTS



THE POWER OF SUPERPOSITION



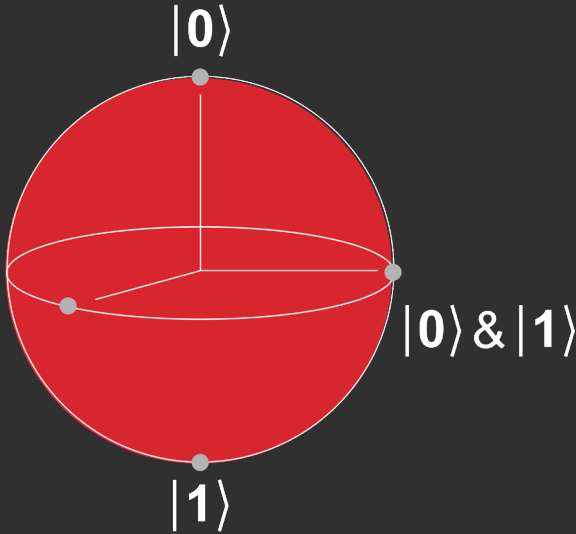
BITS



2^N possibilities:
holds only 1 value at a time

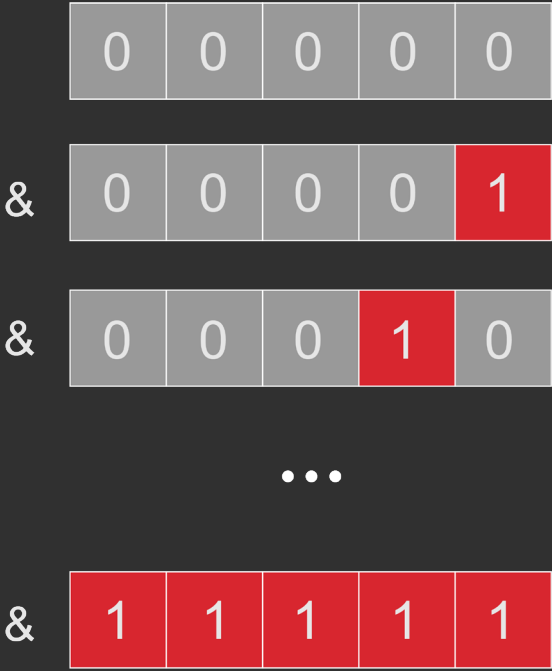
N-BIT WORD

Classical States



QUBITS

Quantum States

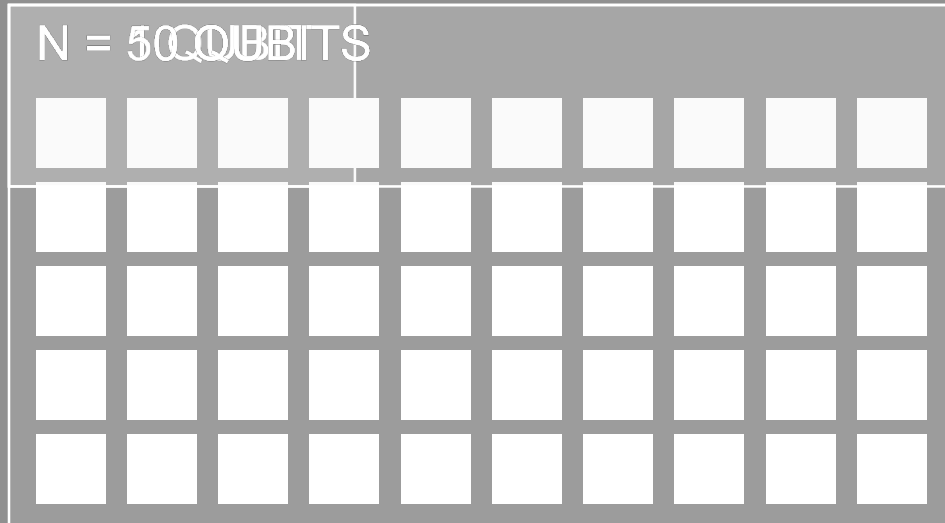


Holds ALL 2^N values at a time

N-QUBIT-WORD

THE POWER OF 2^N

SUPERPOSITION
EQUALS **SUPERPOWER**



1,125,899,906,842,624

2

1 QUBIT

1,024

10 QUBITS

50 QUBITS

QUBIT **CONTROL**

**CONTROLLING
THE FUTURE OF**

**QUANTUM
COMPUTING**

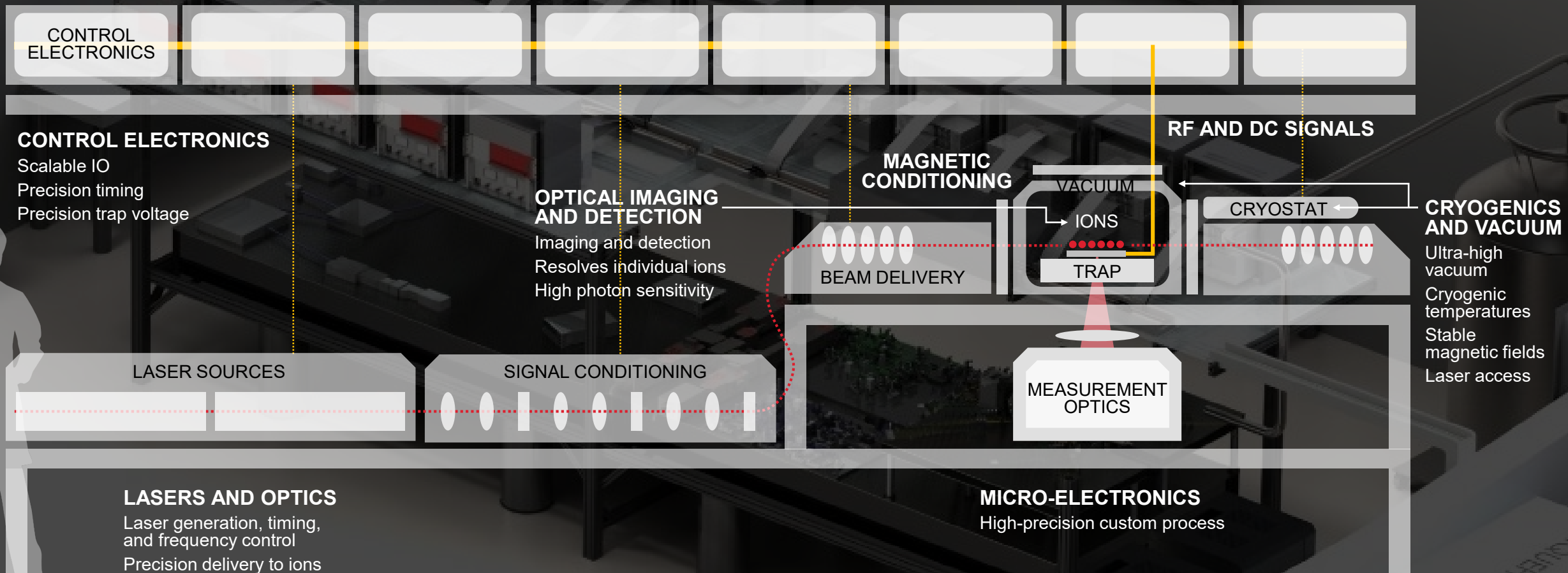
ION TRAPS

CONTROL
QUBIT CONNECTIVITY
AND TRANSPORT
CRYOGENICS
HIGH-FIDELITY GATES

PARALLEL
OPERATIONS

HONEYWELL QUANTUM SOLUTIONS

SHAPING THE FUTURE OF QUANTUM COMPUTING



HONEYWELL QUANTUM SOLUTIONS

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**HONEYWELL
QUANTUM
SOLUTIONS**

**SHAPING THE
FUTURE OF
QUANTUM
COMPUTING**

THANK YOU

Honeywell
QUANTUM SOLUTIONS