Altera Technical Solutions Seminar 2000

MJL

ALTERA®

Schedule

- Opening
- Introduction
- FLEX® 10KE Devices
- APEX™ 20K & Quartus™ Overview
- Design Integration
- EDA Integration
- Intellectual Property
- Design Iteration
- Design Optimization
- Internet Interface
- Roadmap
- Quartus Demo

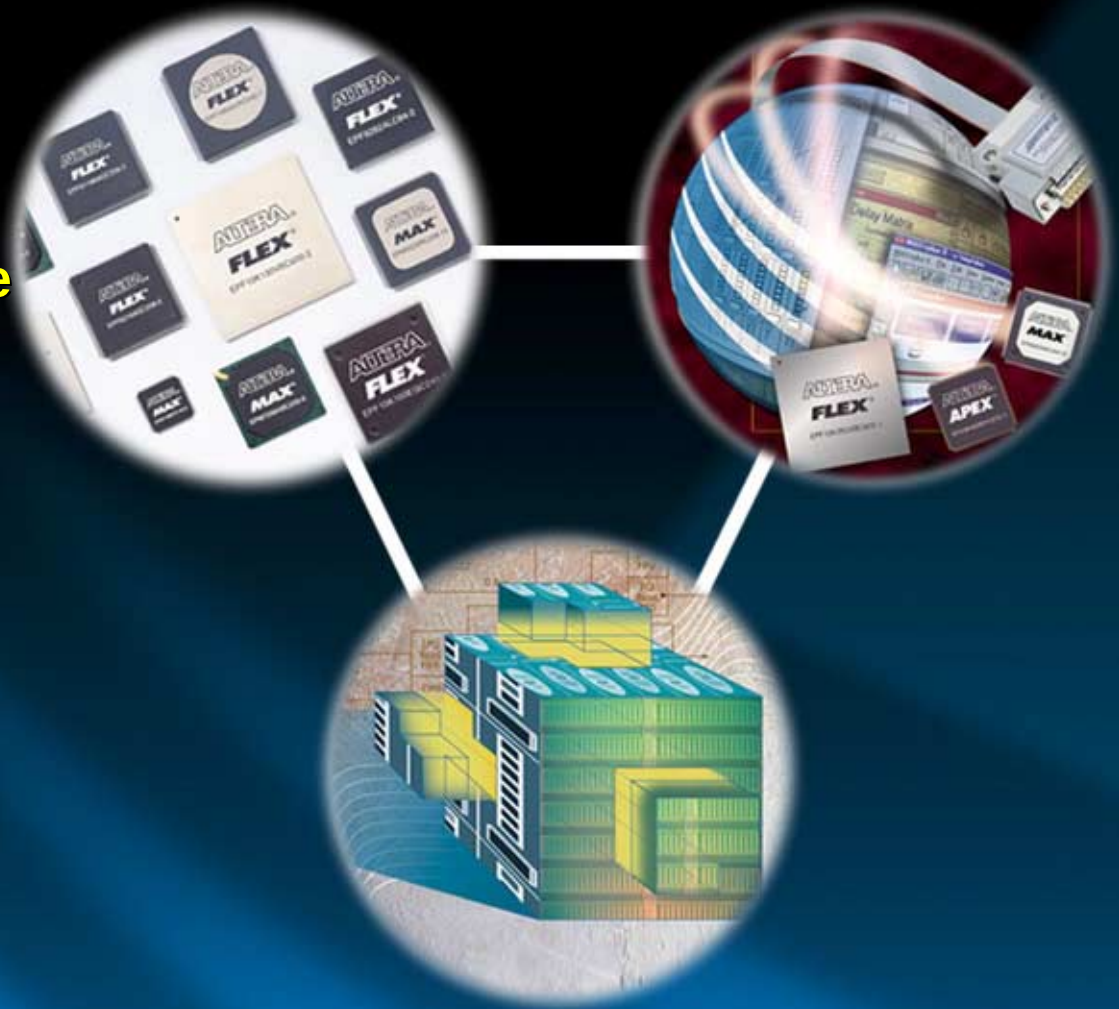
Agenda

- About Altera
- Need for Speed
- New Architectures
- New Design Tools

- Introduction
- FLEX® 10KE Devices
- APEX™ 20K & Quartus™ Overview
- Design Integration
- EDA Integration
- Intellectual Property
- Design Iteration
- Design Optimization
- Internet Interface
- Roadmap

Altera's Mission

High-Density CMOS Programmable Logic Devices



Design Tools

Intellectual Property

ALTERA®

Highlights

- Founded in 1983
- $837 Million in 1999 Sales
- 1,100+ Employees
- 13,000+ Customers Worldwide

MJL

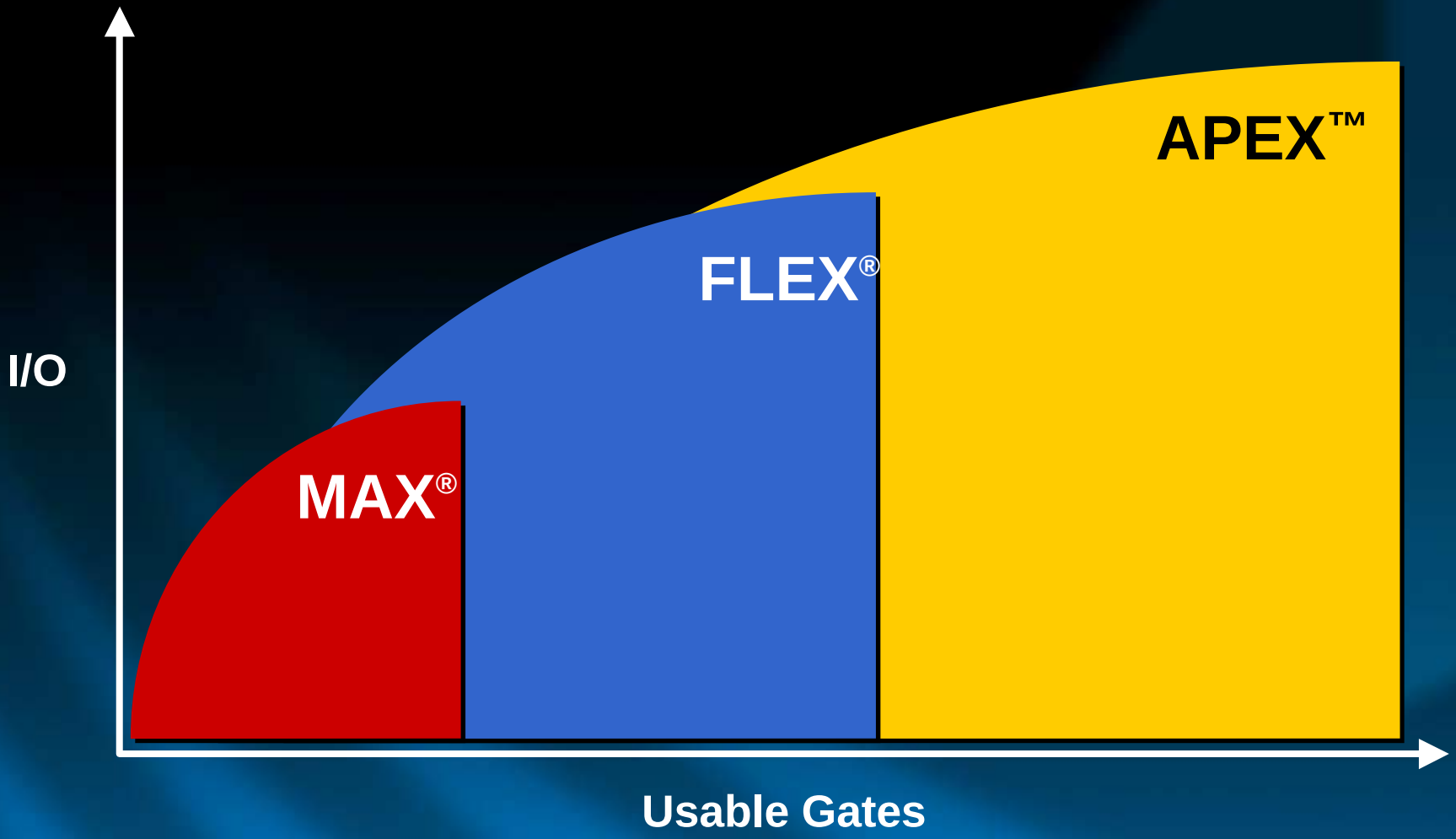
ALTERA®

Altera Sales Offices

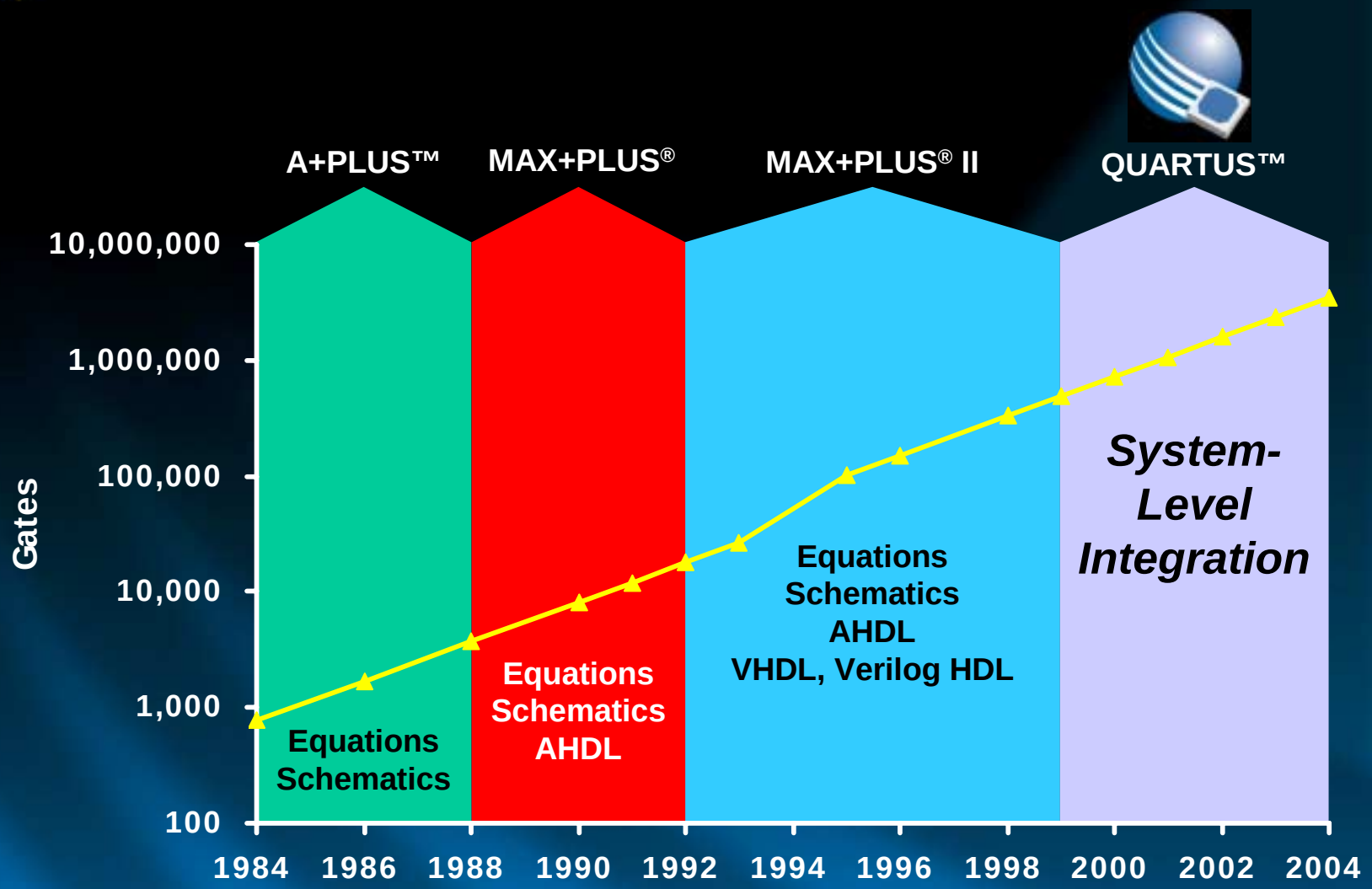
MJL

ALTERA®

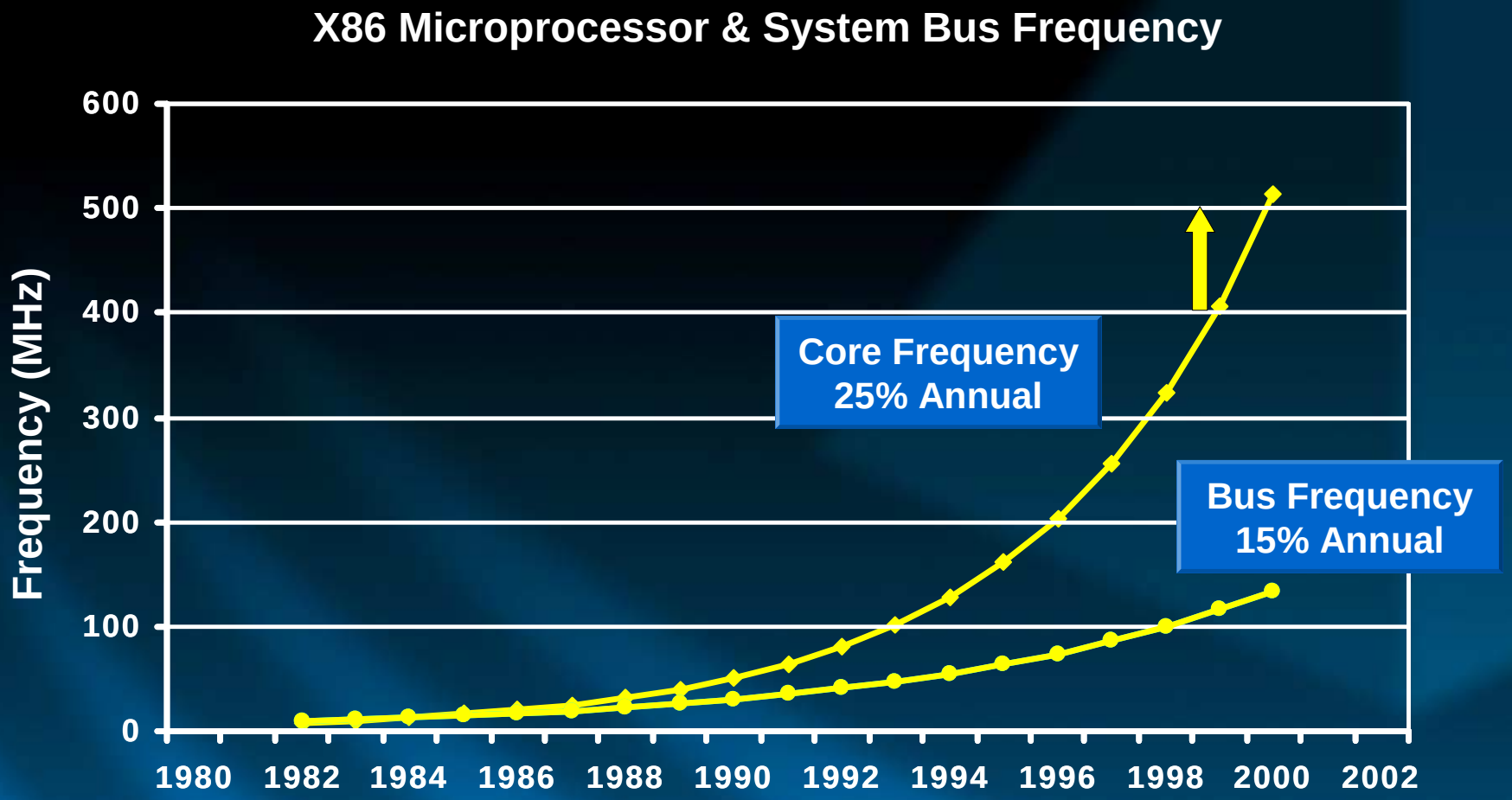
Product Overview



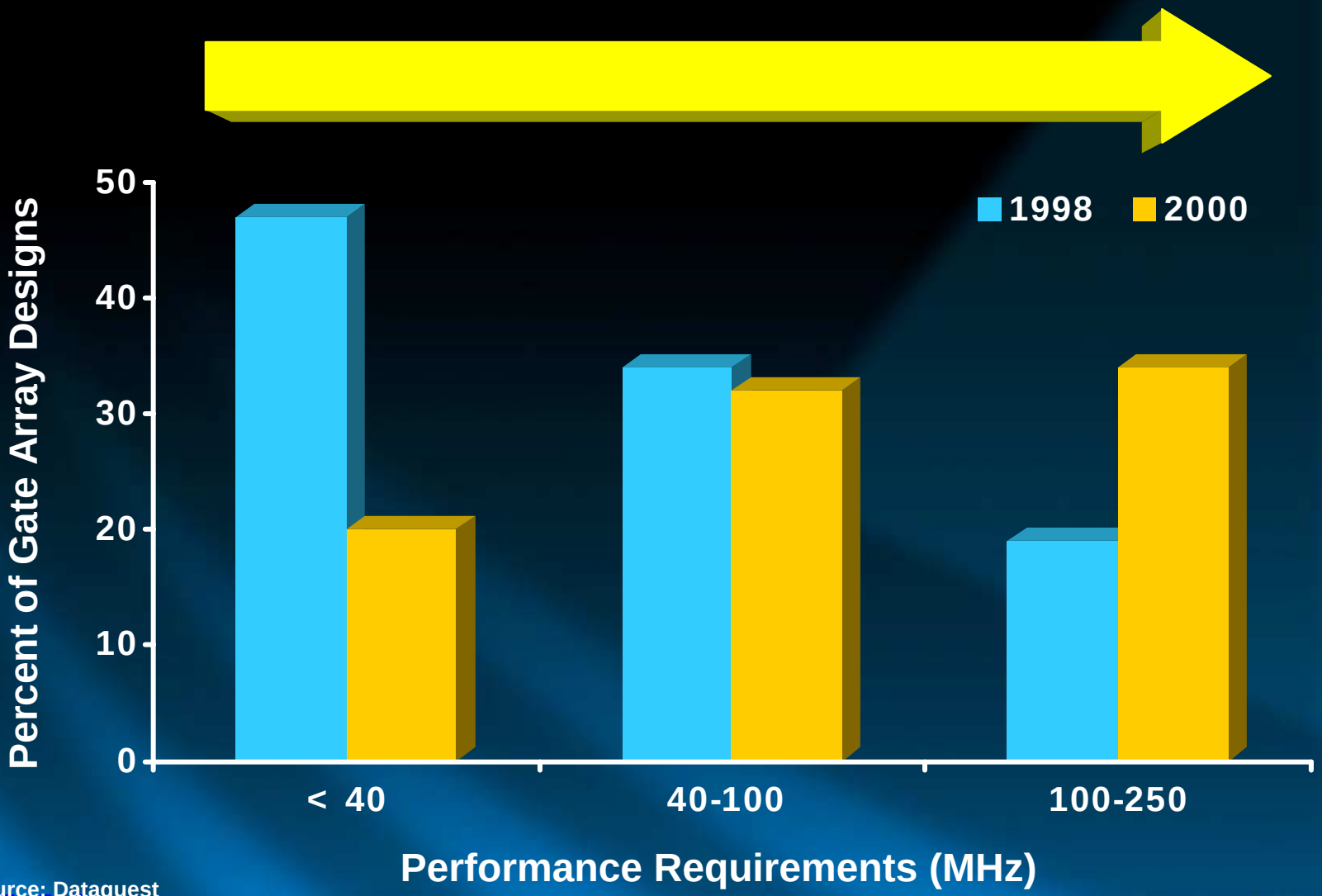
Design Tool Evolution



Technology Is Driving Performance



The Need for Speed

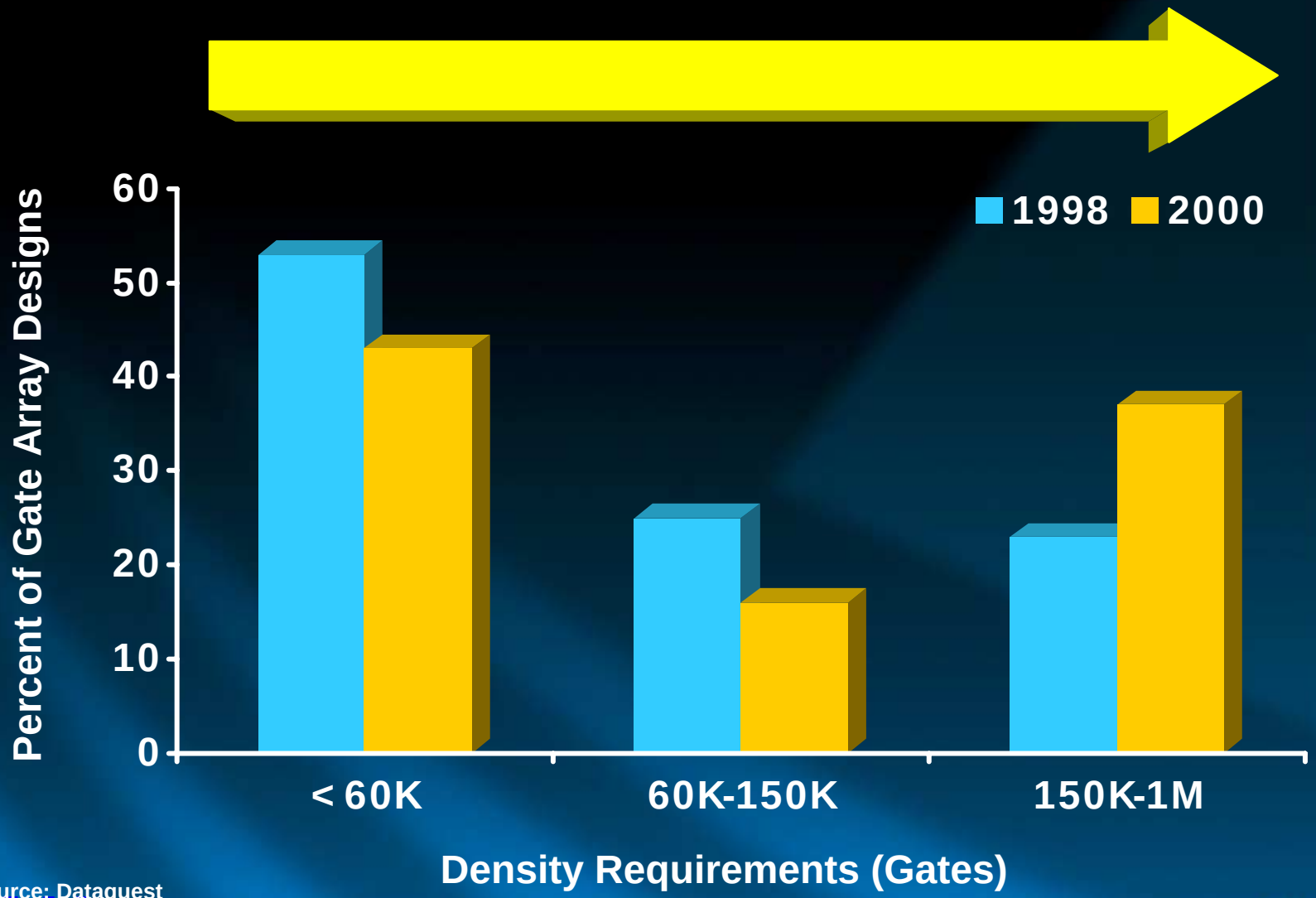


Source: Dataquest

FLEX 10KE Devices Push Performance

- 115-MHz System Speeds
- 64-Bit, 66-MHz PCI Compliance
- Up to 200,000 Gates

The Need for Density



Source: Dataquest

APEX Architecture Capabilities

DESIGN SIZE

- 2-Million-Gate Designs

SYSTEM PERFORMANCE

- 125-MHz Requirements

SYSTEM ENVIRONMENTS

- Low Voltage
- Bus Protocols
- I/O Standards

SYSTEM-LEVEL FUNCTIONS

- Memory
- PLL
- ASSP Integration

MJL

ALTERA®

Quartus Software Capabilities

LARGER, FASTER DEVICES

- 2-Million-Gate Designs
- Higher Performance

TIME TO MARKET

- HDL-Based with IP
- Third-Party Tools Predominant
- Workgroup Computing

COMPUTING ENVIRONMENT

- Windows NT and UNIX
- Multi-Processor Systems
- Heterogeneous Networks
- Distributed Computing

SOFTWARE TECHNOLOGIES

- Object-Oriented Databases
- World-Wide Web
- COM

MJL

ALTERA®

Satisfying ASIC and PLD Users

TRADITIONAL PLD USER

- Easy-to-Use Tools
- Simple Design Methodology
- Fast Compilation Times

GATE ARRAY DESIGNER

- Sophisticated, Powerful Tools
- Use Existing EDA Tool Flow

HIGH-DENSITY PLDs

- Increasing Densities
- Increasing Design Complexity
- New Design Methods

Meeting the Needs of the Future Today

- FLEX® 10KE Devices
- APEX™ 20K Devices
- Quartus™ Development Tools