

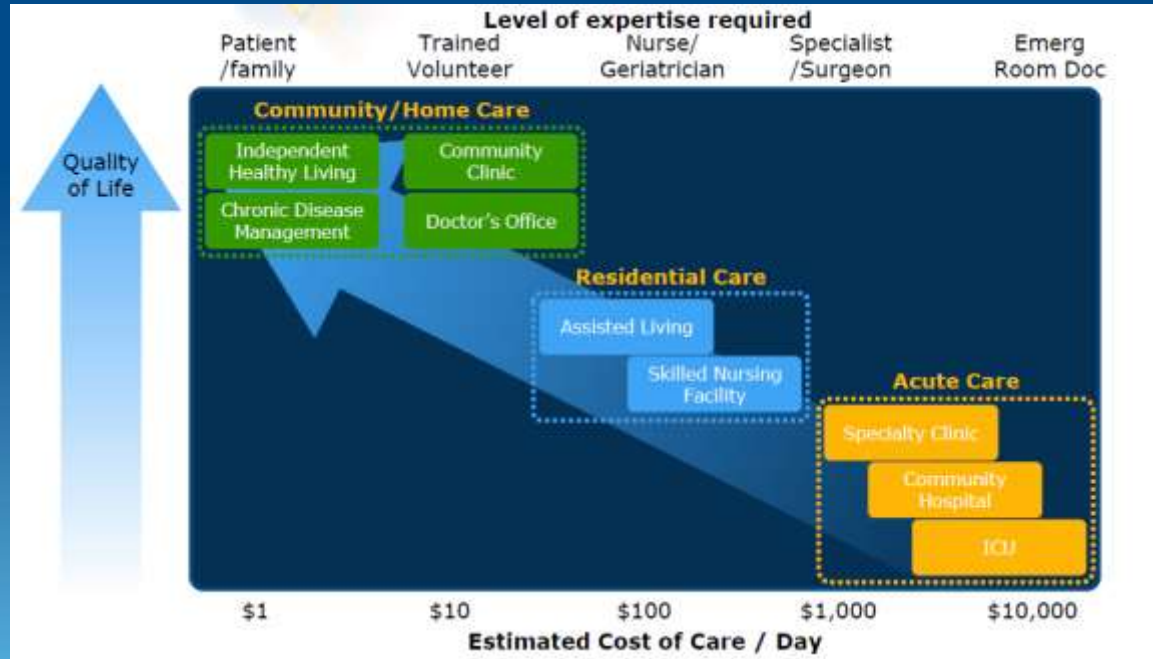


REAL USERS, REAL NEEDS

Jennifer Esposito

Head, Sales and Marketing
Intel Health and Life Sciences Group

PRECISION SHIFT LEFT: FROM MAINFRAME TO PERSONAL HEALTH



PRECISION HEALTH = DISTRIBUTED & PERSONALIZED CARE

GRAND CHALLENGE FOR THE HEALTH & LIFE SCIENCES ECOSYSTEM

ALL IN ONE DAY

From diagnosis based on your omic, clinical, diagnostic, & personal data to a targeted treatment plan

Researchers



Sharing

Collaborate across institutions to make new discoveries

Clinicians



Adoption

Bring genomics and precision medicine into practice

Payers and Policymakers



Reimbursement

Validate the benefits and evidence of precision medicine

Patients



Education

Demand that your care begins with genomic sequencing

Precision health for all

MAIN COMPUTING CHALLENGES TO ACHIEVE 'ALL IN ONE DAY'

Size

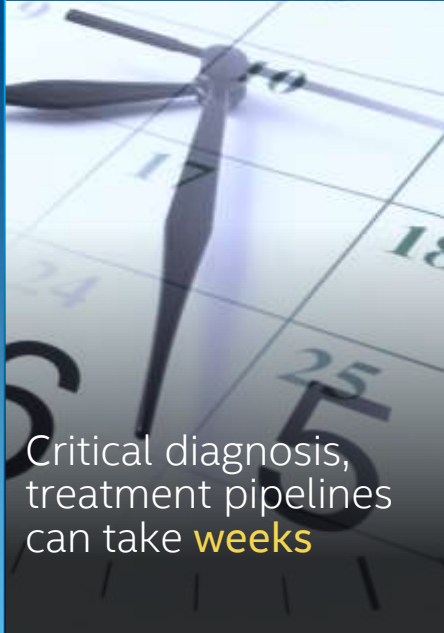
Data management



Raw sequencing data sets are large, **impractical** to share

Speed

Workflow efficiency



Critical diagnosis, treatment pipelines can take **weeks**

Secure sharing

Privacy protection



Difficult to protect patient **privacy** while sharing diagnosis, treatment data

Scalability

Increasing requirements



Genomic sequencing capabilities of current architectures **outpacing**

BEYOND TECHNOLOGY

EDUCATION

The next generation of bio-informaticians, clinicians, and patients must be educated



POLICY

Privacy and consent policies must allow secure access to health data while protecting confidentiality



REIMBURSEMENT

Validate the benefits and evidence of precision medicine and set standards



INVESTMENT

Sustain and grow, including White House Precision Medicine Initiative



DESIGN CHALLENGES WE'VE BEEN FOCUSING ON

Get new insights in a secure, shared way without giving up control of your data

Move the **analytics**,
not the data



Do it in an **open**,
secure trust model



Do it at **scale**, for
any researcher



Enabling a diagnosis based on your
genome to a targeted treatment plan...

THANK YOU!

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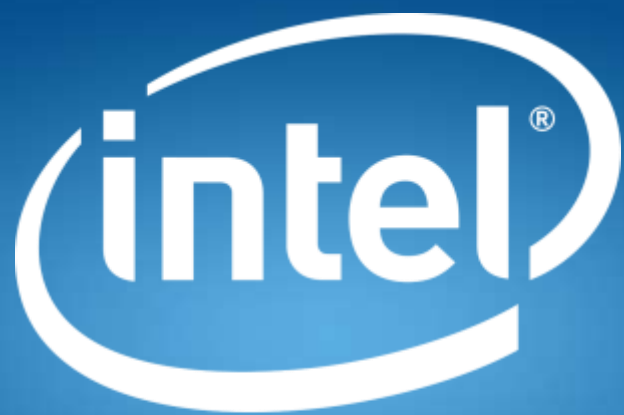


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Resources

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