

University of California San Francisco

Digital Hub@ Parnassus Heights

November 27, 2018 Parnassus Master Plan Steering Committee

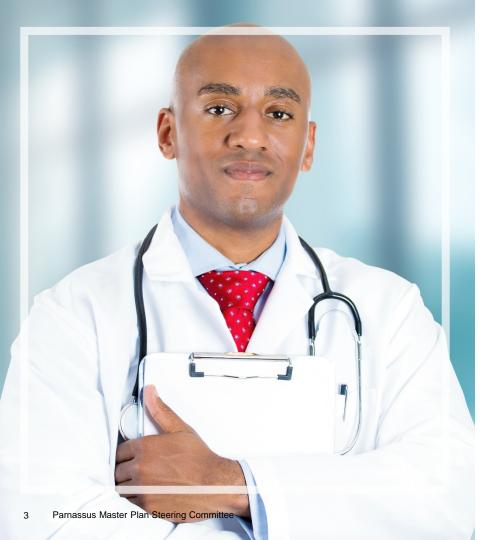
Julia Adler-Milstein, PhD Aaron Neinstein, MD Robert Wachter, MD



I am a: clinician at UCSF

I want to: inform a treatment decision for one of my patients by building an ondemand cohort of similar UC patients to compare.





I am a: clinician at UCSF

I want to: improve the way our current EHR supports medication reconciliation for my clinic's patient population. I am a: researcher at UCSF

I want to: build a decision support app that delivers realtime risk predictions to UCSF intensive care teams.





I am a: faculty member at Harvard doing cutting-edge robotics research

I want to: move to an institution where I can seamlessly collaborate with other digital health faculty and a health system that will allow me to test and refine my designs. I am a: well-established Silicon Valley technology company

I want to: work with an academic health center to codevelop a breakthrough technology that improves population health.







I am a: start-up tech company

I want to: pilot test my new solution that improves OR scheduling and throughput.

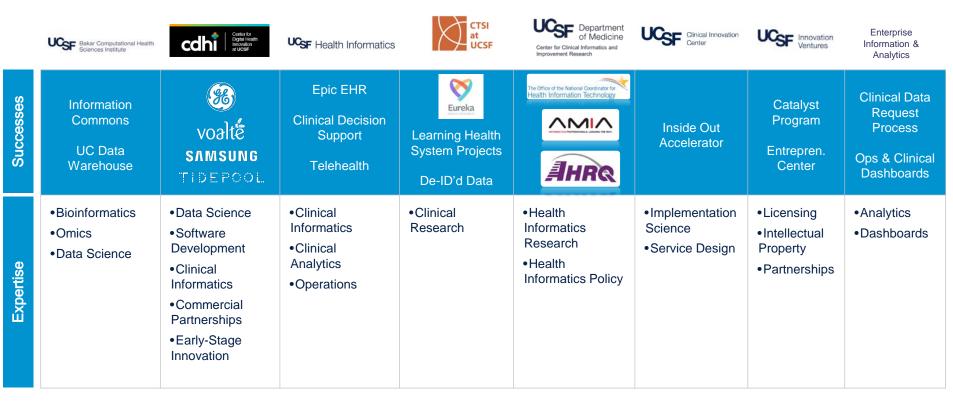


I am a: third year Orthopedics resident at UCSF

I want to: work with UCSF digital health faculty to refine and pilot a new clinical decision support algorithm.



UCSF's early successes in Digital Health



... and much more within Departments



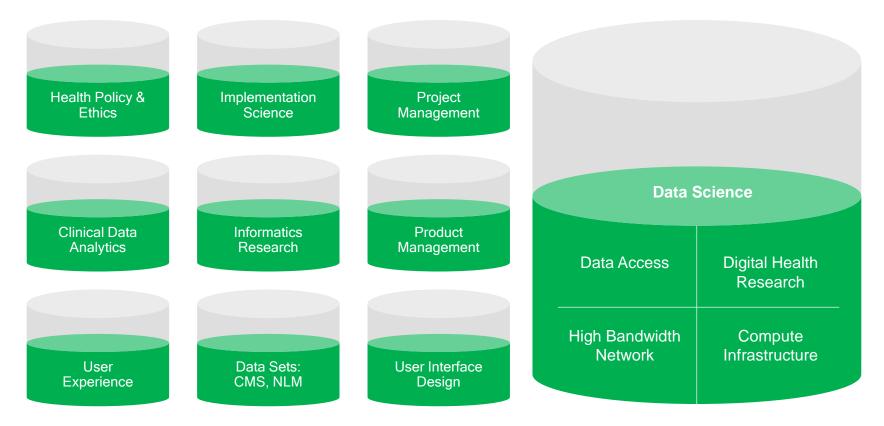


Our digital groups are geographically dispersed...



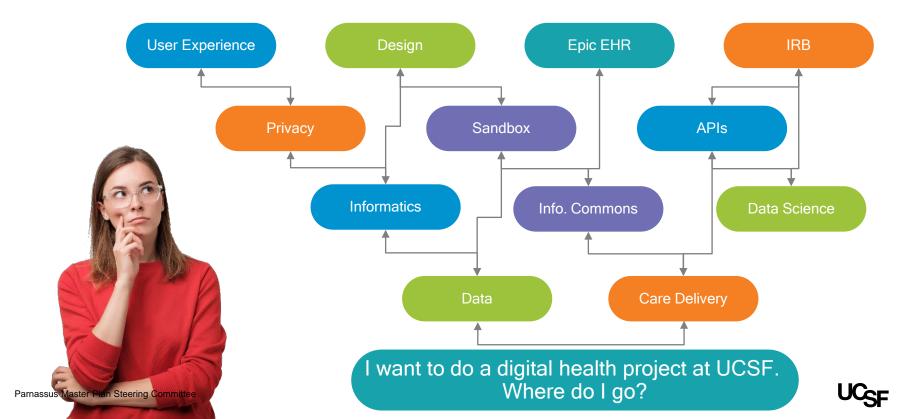


... and we have key resource gaps



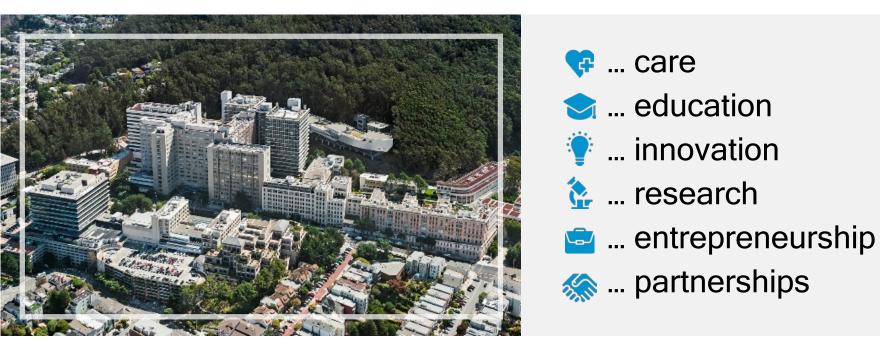


... as well as poorly coordinated resources, leading to frustrated UCSF faculty and external partners



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UCSF has an opportunity to be <u>the</u> premier university for digital...

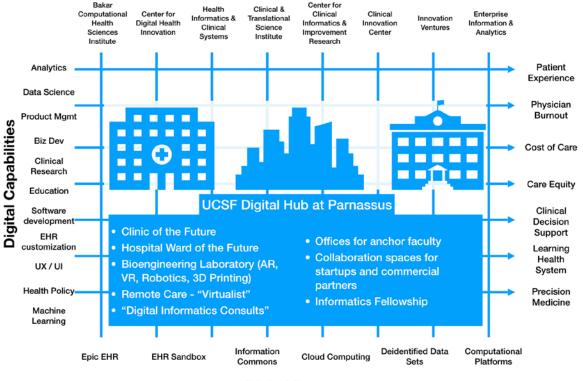


Vision

To be the premier university in the world for digital, by...

streamlining Digital Health at UCSF to seamlessly support the needs of clinicians, researchers, trainees, and external partners...

UCSF Digital Hub Anchor Programs



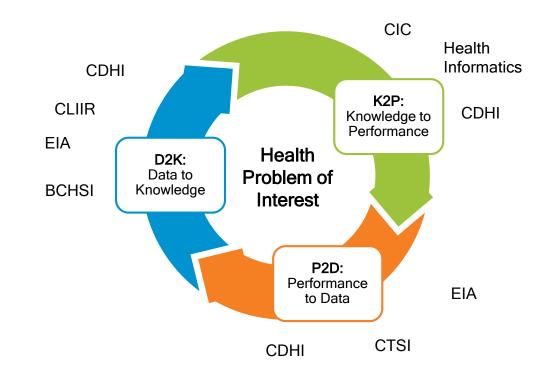
Digital Resources

Note: BCHSI remains at Mission Bay, but will be core member of the Digital Hub and have a presence at Parnassus

Vision

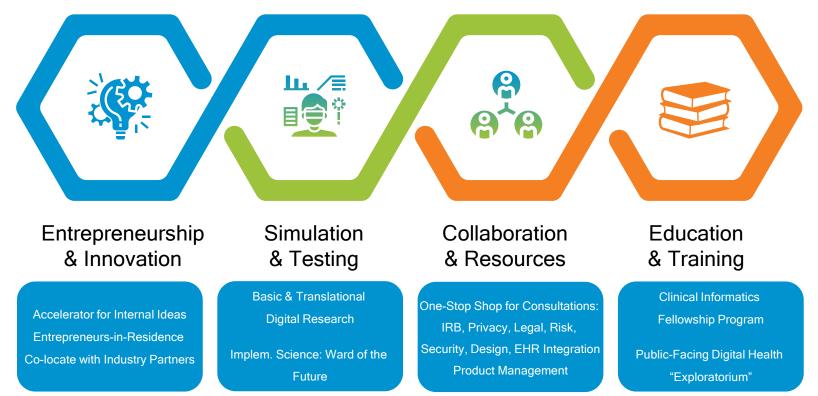
... allowing current UCSF Digital Health assets to work together to deliver a true Learning Health System.

Learning Health Cycle





UCSF Digital Hub: Four Core Areas





UCSF Digital Hub belongs at Parnassus Heights





UCSF Digital Hub - Governance



- Broad representation from community of digital entities and core users (e.g. clinical departments)
- Federated model: maintain autonomy of constituent units while emphasizing cross-cutting projects, communication (between silos and externally-facing), convening, education, collaboratory
- Decision Making & Authority
 - \$1-2M/yr, staff to purpose, 3-5 staff to start
 - Focused on strategic planning, space mgmt., building & managing cross-cutting projects



Unified space @ Parnassus Heights

New federated program, strategy and governance

.







University of California San Francisco

Working Group Membership



Julia Adler-Milstein





Aaron Neinstein



Steven Bin



Stefano Bini



Rachael Callcut



David Dobbs



Xiao Hu



Carolyn Jasik



Elsbeth Kalenderian



Marc Kohli



Sharon Priest





Michael Lesh



Chandler Mayfield



Rosa Rodriguez-Monguio



Cara Fladd

Full-Time Occupants - Current & Projected

Team	Current @ Parnassus Heights		FY20 @ Digital Hub		FY25 @ Digital Hub	
	Low	High	Low	High	Low	High
CDHI	12	17	25	50 (Increasing team size & shift staff from MB)	35	80
CLIIR	0	0	10	20		
CIC	8	10	8	10		
CTSI	0	0	5	15	5	25
Dept of Epi/Biostats						
BCHSI	0	0	1	2		
EI&A	0	0	5	15	8	20
Health Informatics	5	10	4	6		
Informatics Trainees	5	10	5	10	8	15
EIR / Incubator	0	0	2	3		
Clinical Dept people			10	15		
Totals	30	47	70	131		





Entrepreneurship & Innovation



- Collaborative Environment
 - o Attract and recruit top talent
 - Strengthen synergies of existing UCSF people and assets
- One Stop Shop for Consultations: IRB, Privacy, Legal, Risk, Security, Design, UX, Product Management, EHR

- Basic Digital Research: Utilization of large data sets
 with ML & AI
- Translational Digital Research: Rapid design and prototyping
- Implementation Science: Laboratory Practice. Ward of the Future. Hospital at Home
- Post-Market Digital Surveillance





Collaboration & Resources



Education & Training

- Data Science Resources
- Accelerator for Internal Ideas
- Entrepreneurs-in-Residence
- Co-locate with Industry Partners
 - o Co-Development
 - o Validation

- Seminars and Events
- Education: Data Science, Informatics, Design, Entrepreneurship
- Clinical Informatics Fellowship Program
- Public-Facing Digital Health "Exploratorium"