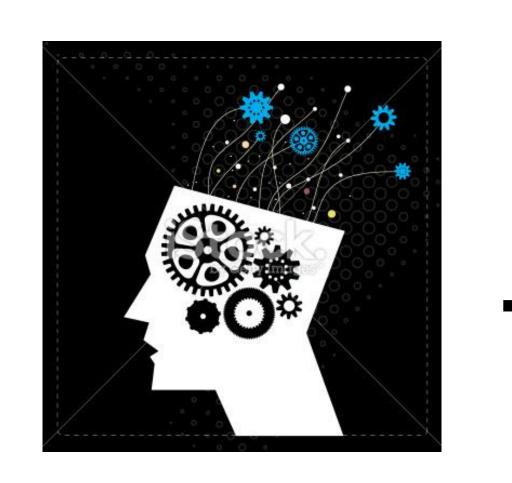
### Noggin does Workflows



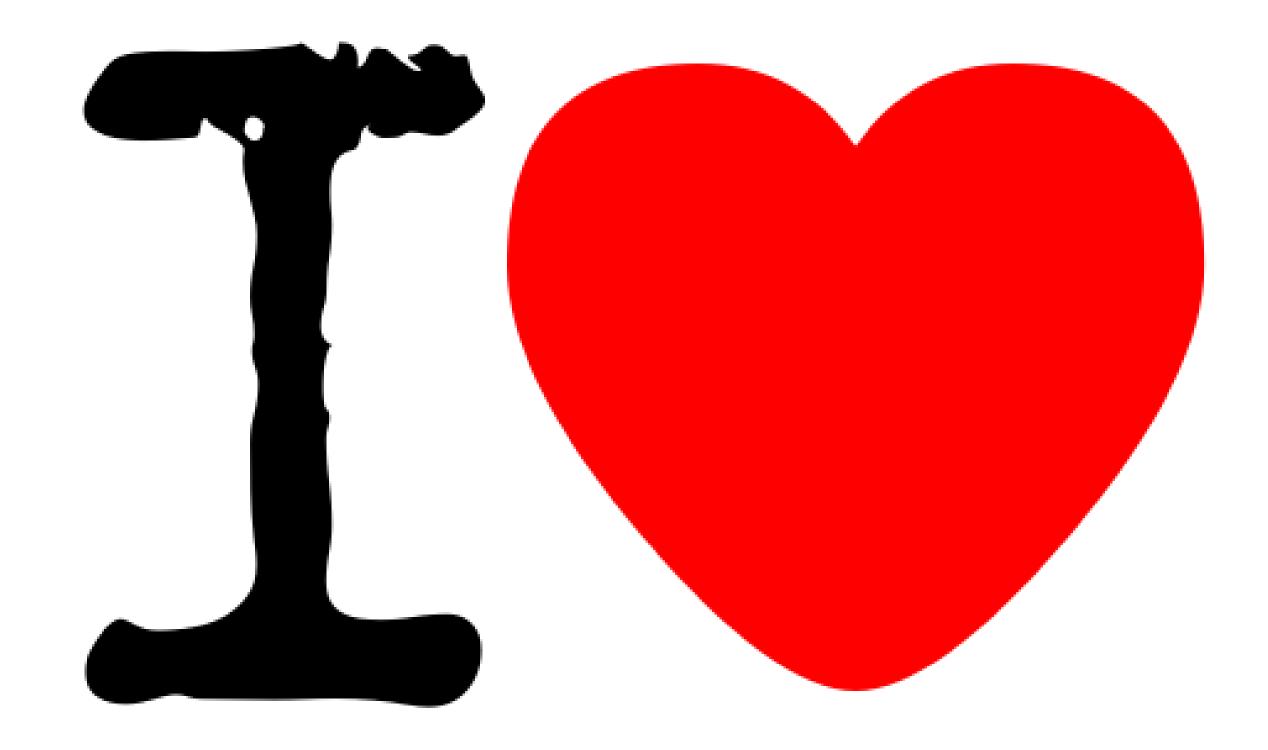
ESRI Health UC Colorado Springs November 3, 2014 James BW, CEO



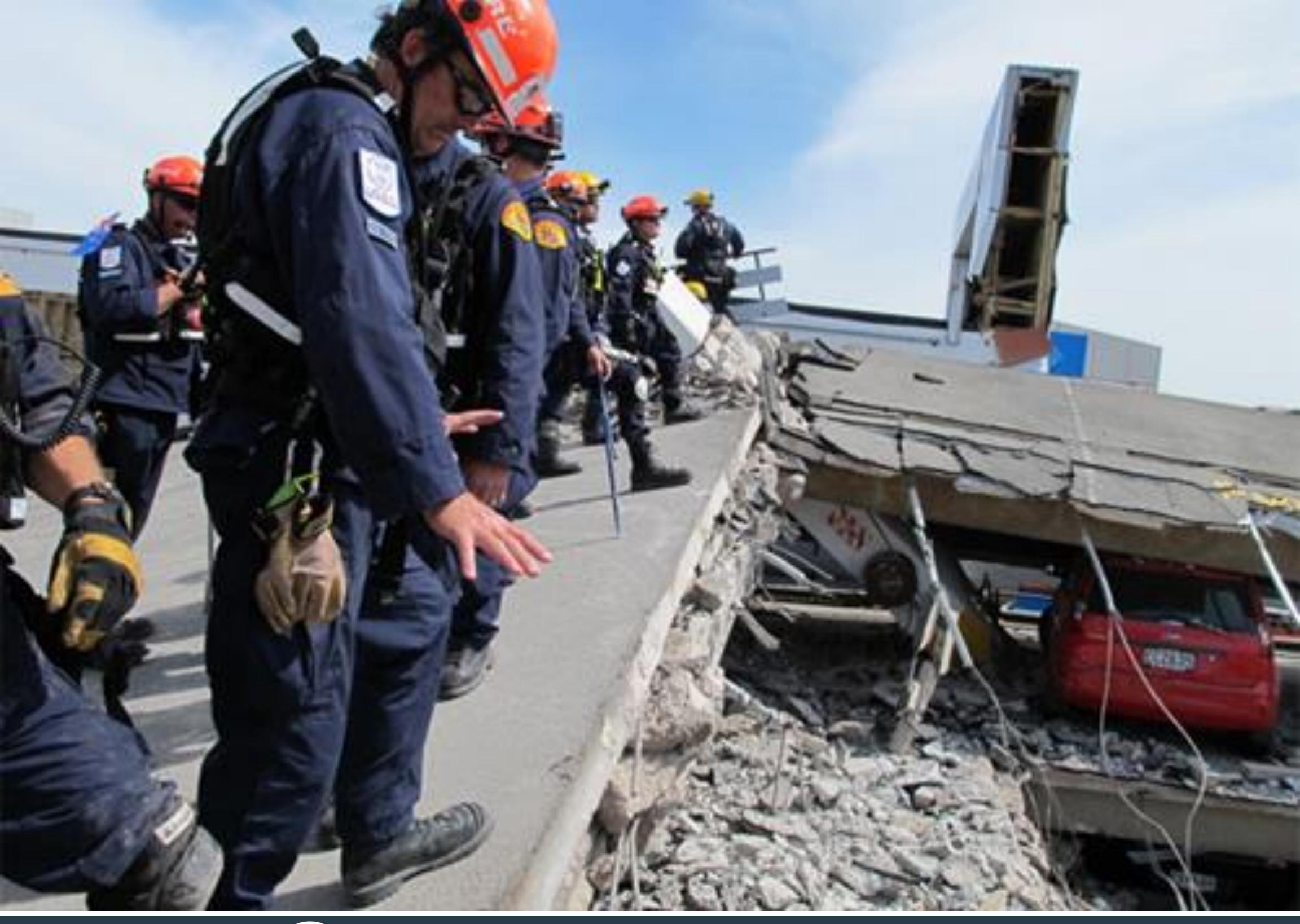


— Workflows?





## Workflows









# A trip to surgery for A hip operation



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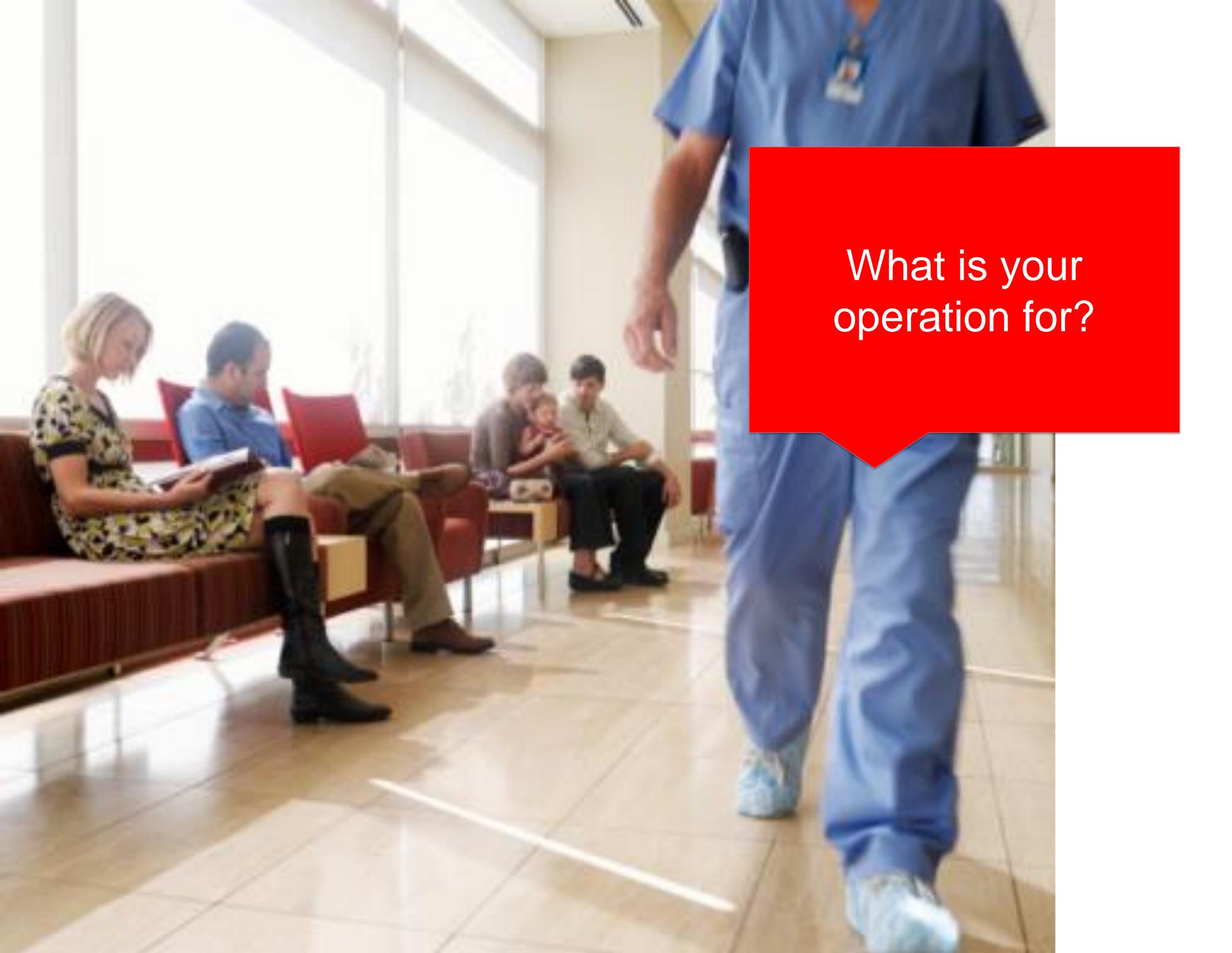
#### St Vincent's Private Hospital PRE-ADMISSION INFORMATION

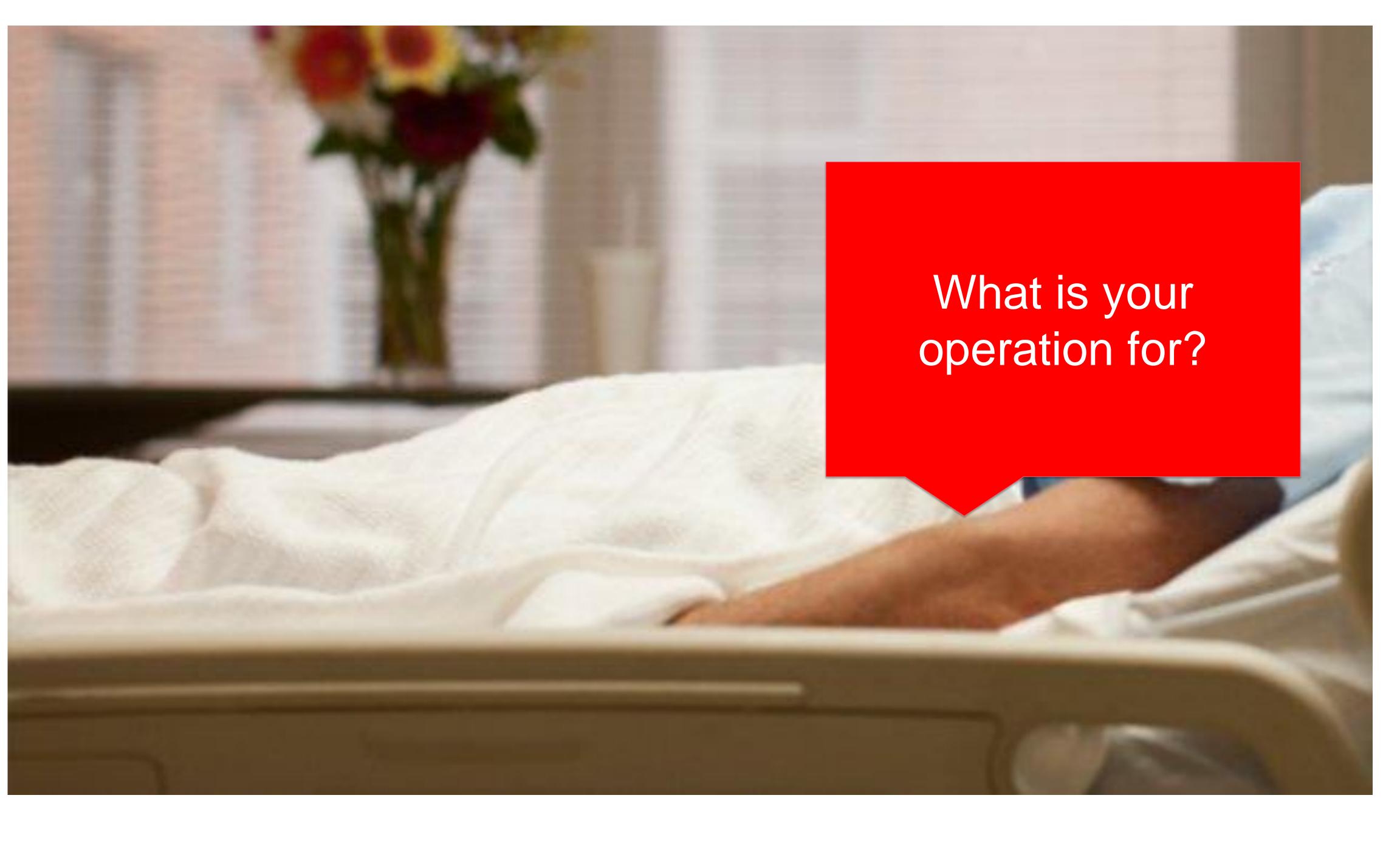
406 Victoria Street, Darlinghurst NSW 2010 Telephone (02) 8382 7111 Fax 8382 7248

PLEASE COMPLETE THE PREADMISSION INFORMATION AND RETURN TO THE HOSPITAL AT THE ABOVE ADDRESS OR FAX ALL PAGES NO LATER THAN 72 HOURS PRIOR TO ADMISSION.
WITHOUT THIS INFORMATION THE HOSPITAL CANNOT CONFIRM YOUR BOOKING

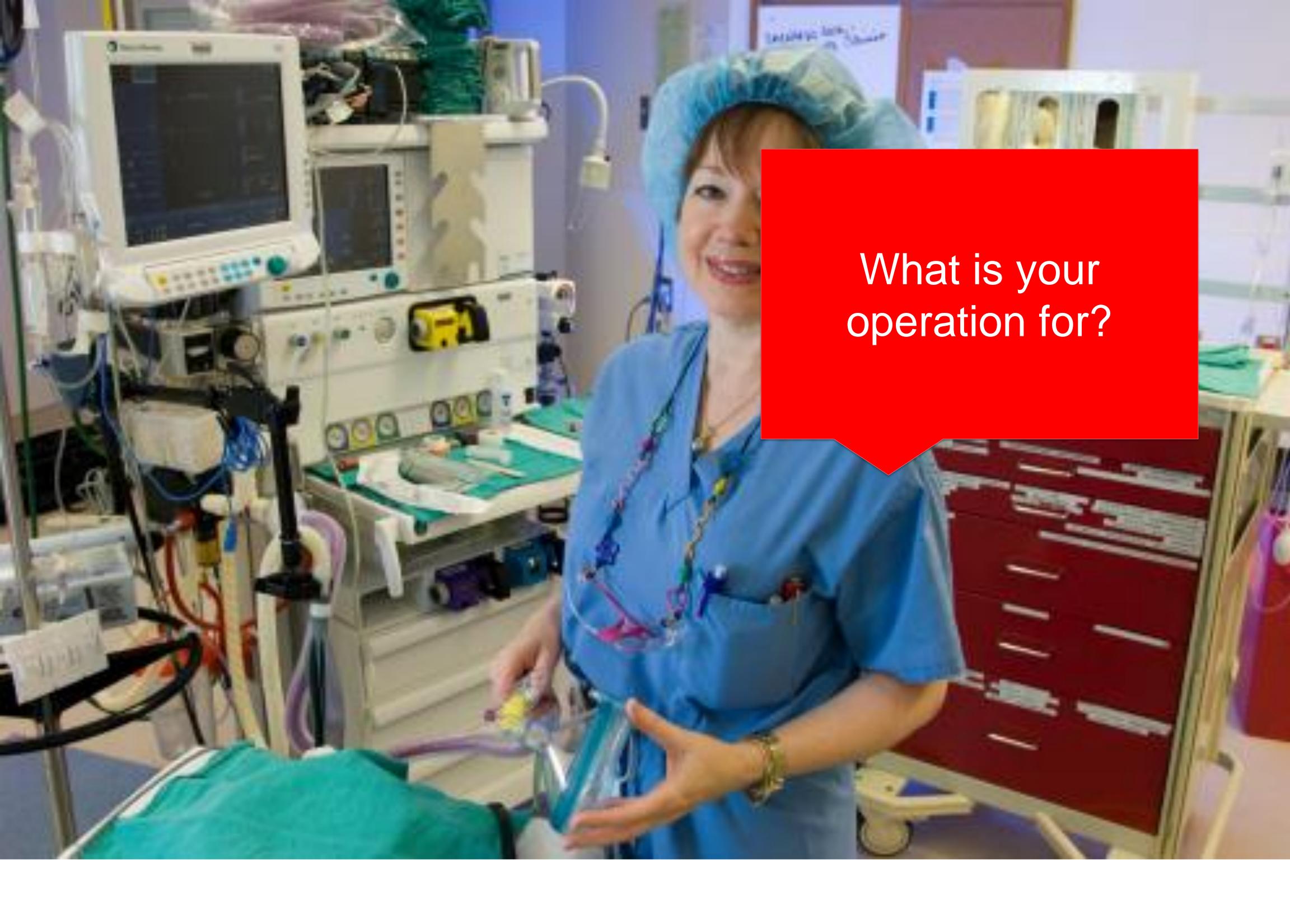
Have you been a patient at St Vincent's Private Hospital, Day Surgery or Cardiac Catheter Centre?	
No ☐ If yes, do you know the year of your previous admission	
Your Accommodation Preference : ☐ Single ☐ Shared (2 bed) (preference	
ADMISSION DETAILS	
Date you are being admitted Name of Admitting Doctor _	
Your title ☐ Mr. ☐ Mrs. ☐ Miss ☐ Ms Other	\
Surname Given Name	What is your
Surname last admission  Unchanged  Previous Name	
Date of Birth Religion	operation for?
Marital Status : ☐ Single ☐ Married ☐ Divorced ☐ Widowed ☐ Separate	
Address	
Post Code	
Ethnicity: ☐ Aboriginal ☐ Torres Strait Islander ☐ Both ☐ Neither  Country of Birth Year of arrival in Australia [ ]	□ N/A
Do you require an interpreter? □ No □ Yes Language spoken at home	
PERSON TO NOTIFY / NEXT OF KIN ☐ Mr. ☐ Mrs. ☐ Miss ☐ Ms	Contact numbers H
Person for notificationRelationship	w
Address Post Code	M
Is the next of kin the same person? ☐ Yes ☐ No - if no please complete	
□ Mr. □ Mrs. □ Miss □ Ms	Contact numbers
Next of Kin Relationship	
Address Post Code	W
Please tick  if you DO NOT want your GP contacted	Contact Number
Family Doctor (GP) Suburb	
Are you entitled to Government Pharmaceutical Benefits   No Yes	
T.	piry Date
Health Fund:  Membership Number	
Health Fund: Membership Number	
Medicare number number e Expiry Date of the control	ate













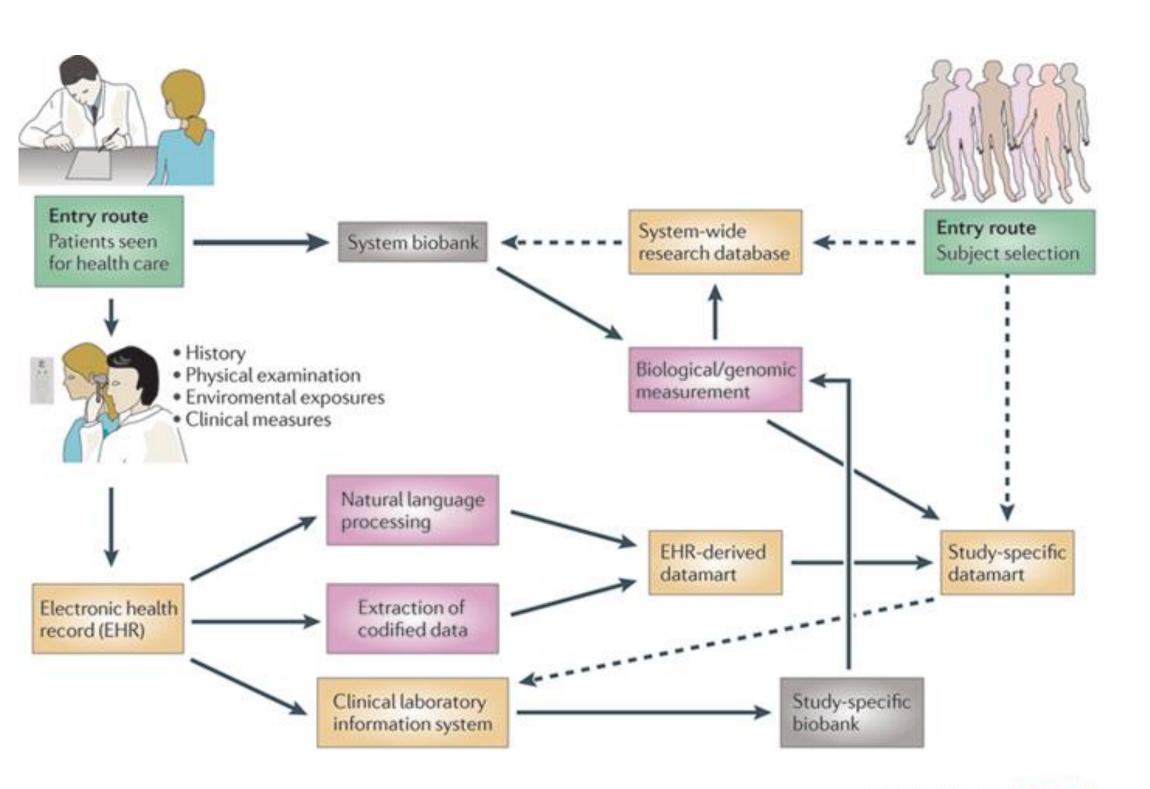


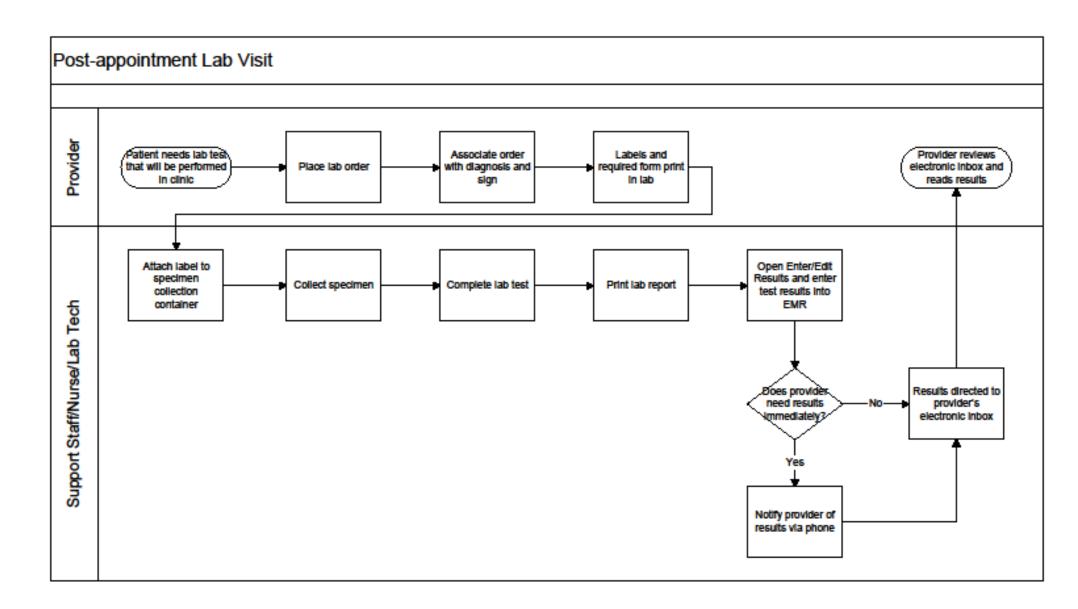


Draw on my leg first?

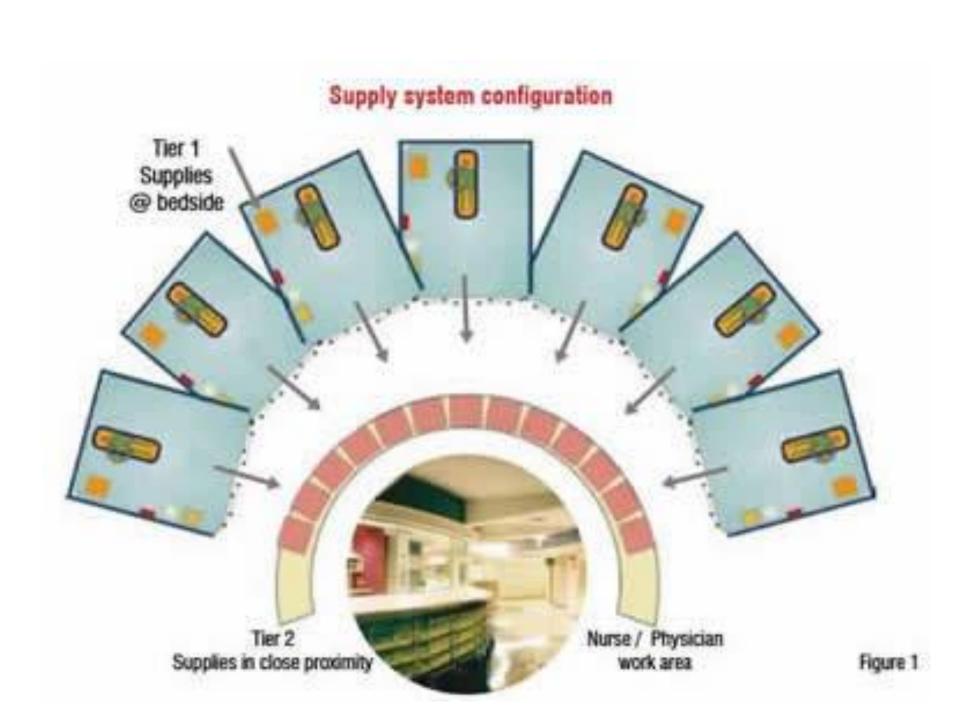
Very

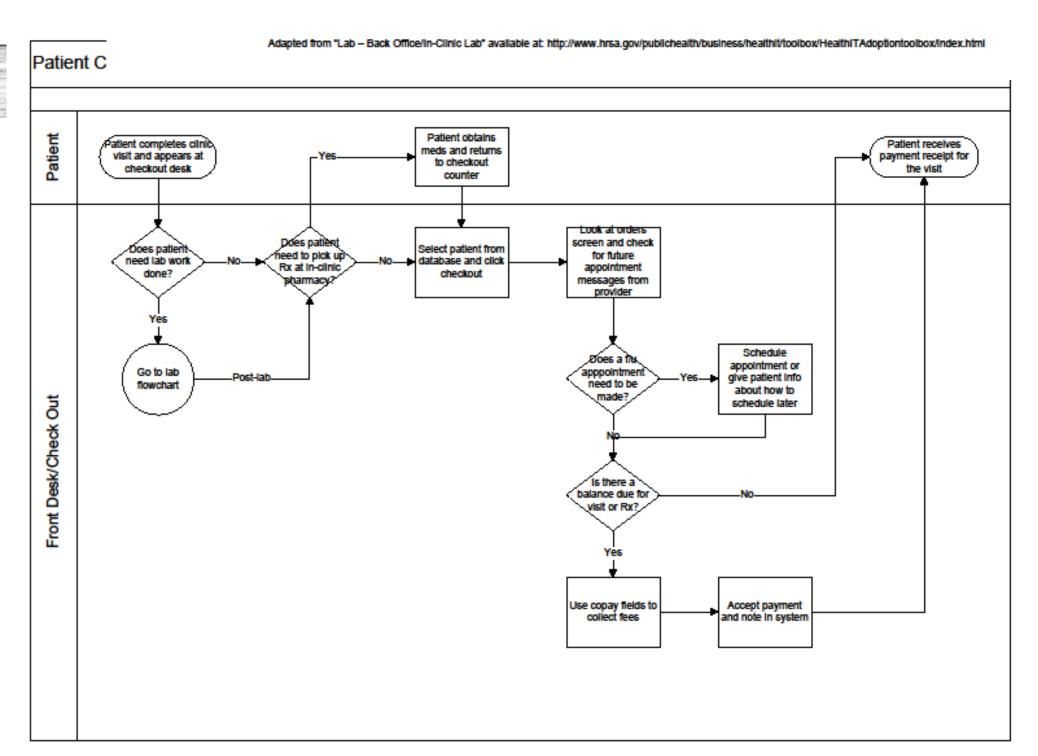
### An abridged history of workflows





#### Nature Reviews | Genetics



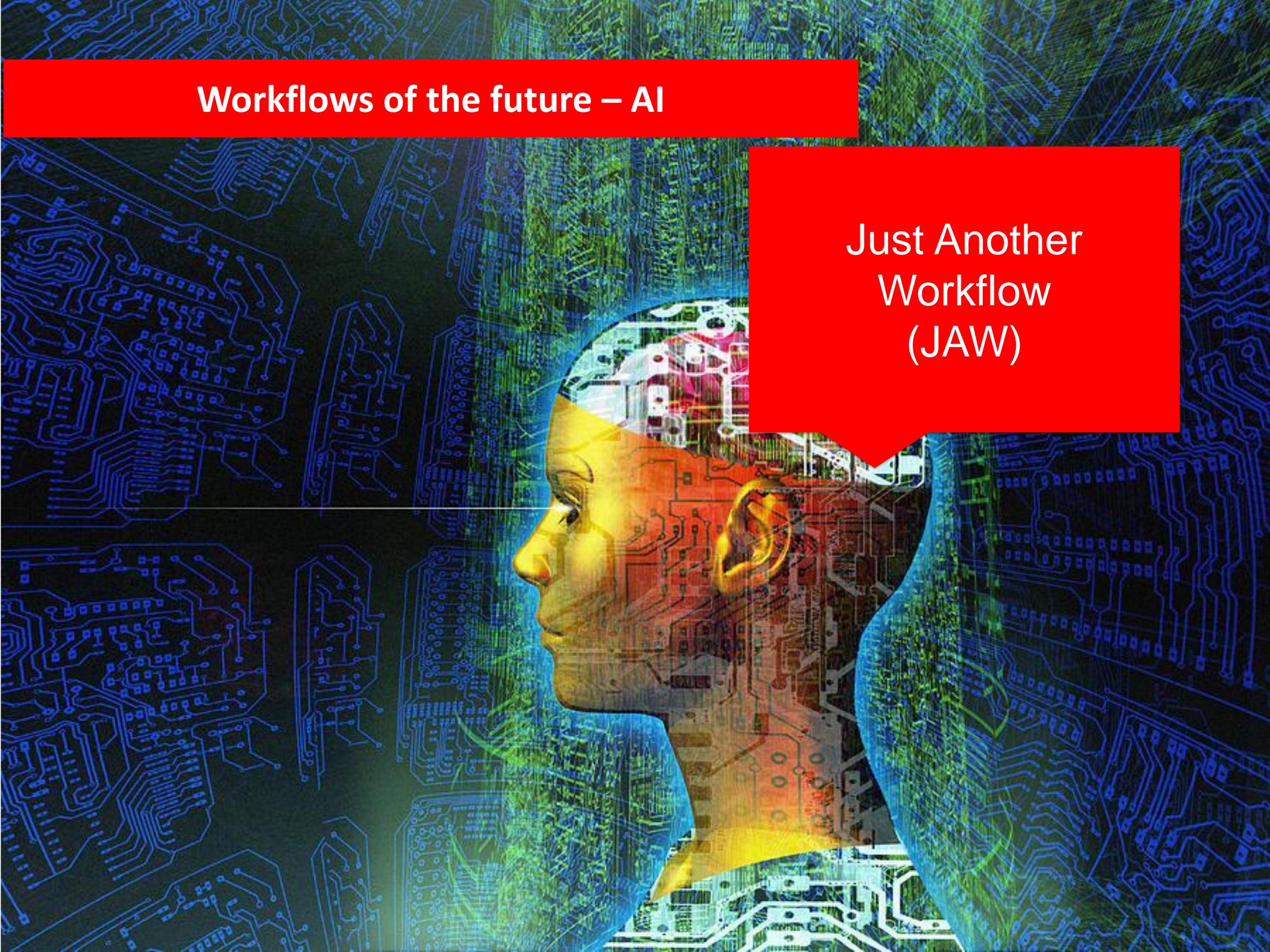


Adapted from "Integrated Check Out" available at: http://www.hrsa.gov/publicheaith/business/heaithit/tooibox/HeaithiTAdoptiontooibox/Index.html



#### Workflows – Post WW2



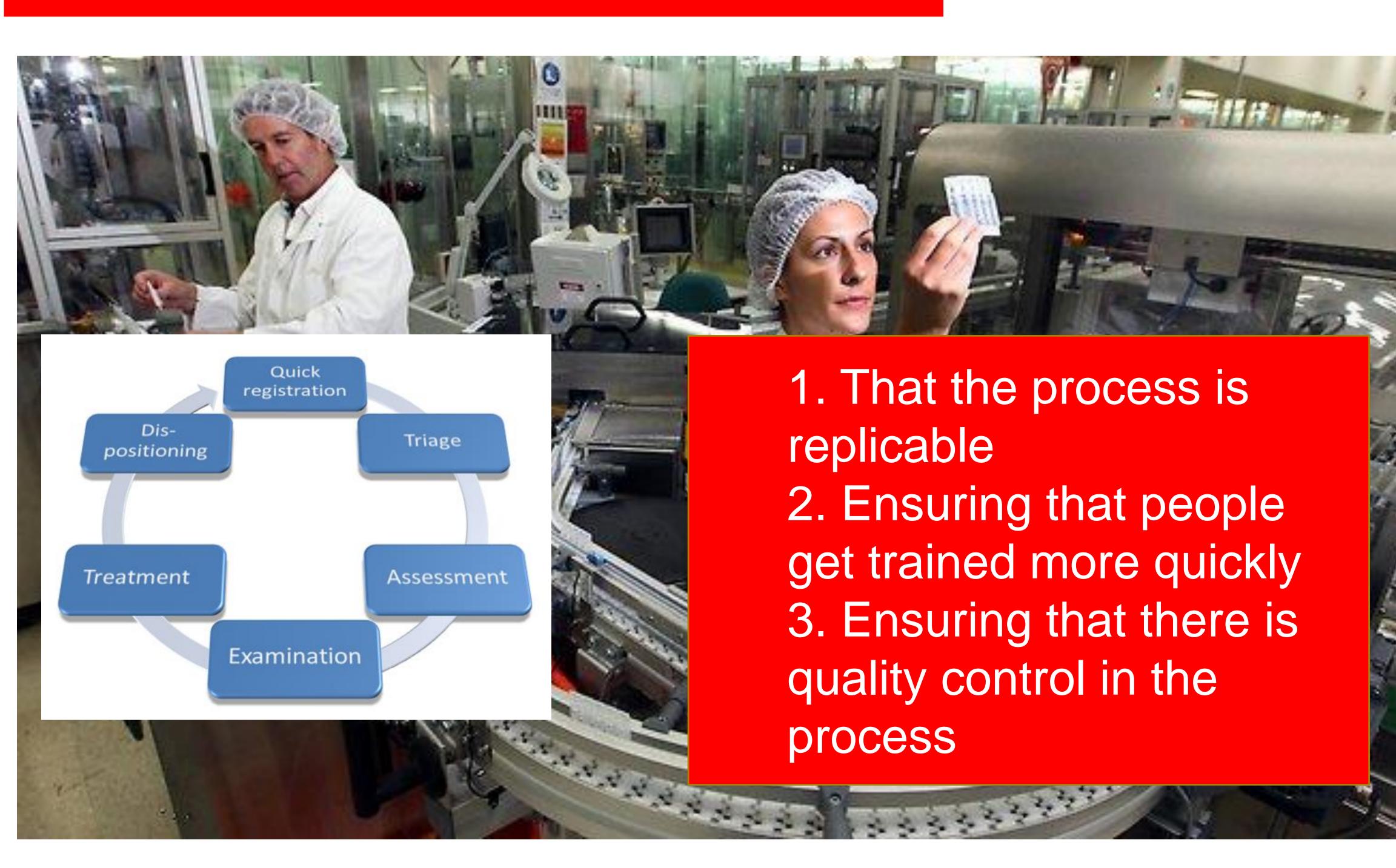


#### The noble notion

"Workflows liberate scientists from the drudgery of routine data processing so they can concentrate on scientific discovery."\*



#### The practical notion



## So to Ebola, the United States And workflows

#### Thomas Eric Duncan (dec)



Due to an oversight in how the physicians and nurses workflow portion was designed in the EHR, however, the vital travel history entered into the EHR by the nurse did not appear in the physician's standard workflow

In an Oct. 2 statement, Texas Health officials said that in the "interest of transparency," they confirmed the chain of events leading up to Duncan's travel history not being initially known by or communicated to physicians

# 1. Get feedback on workflows And improve them

"Frustration with electronic health records has never been higher among RNs, with vast majorities complaining of poor workflows, bad communication and scant input on implementation decisions, a new survey shows."

- 90 percent say their EHR has adversely affected communications between nurses and their patients.
- 67 percent of nurses say they've been taught workarounds in flawed EHRs to allow other health team members to view pertinent patient information
- 69 percent of nurses in for-profit hospitals say their IT department is "incompetent"

http://blackbookmarketresearch.com/

- as quoted from IT Healthcare news



"Although they're on the front lines of care delivery, and the most frequent users of EHRs, an overwhelming 98 percent of the 13,650 licensed RNs polled by Black Book for its latest EHR Loyalty Poll say they've never been included in their hospitals' IT decisions or design."

http://blackbookmarketresearch.com/

- as quoted from IT Healthcare news



### 2. Make Workflows Customizable

"Possibly relevant to the Ebola vs. EHR case in Dallas, workflows can be created and customized by physicians, who know their workflows best."

If I Could Change One Thing About EHRs That Might Have Prevented Release Of The Dallas Ebola Patient by CHUCKWEBSTER MD





## COMPUTER SAYS NO

http://tinyurl.com/qgvsffn

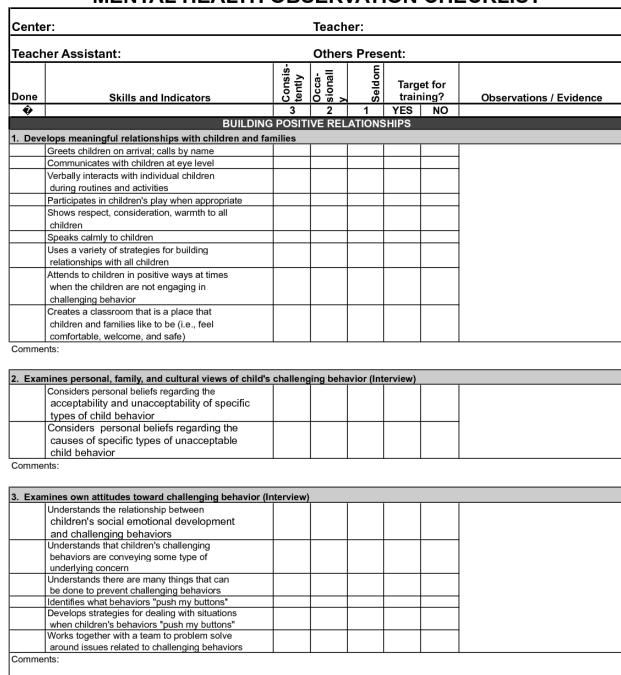
35

# 3. Need to know when you have discretion to look beyond the workflow

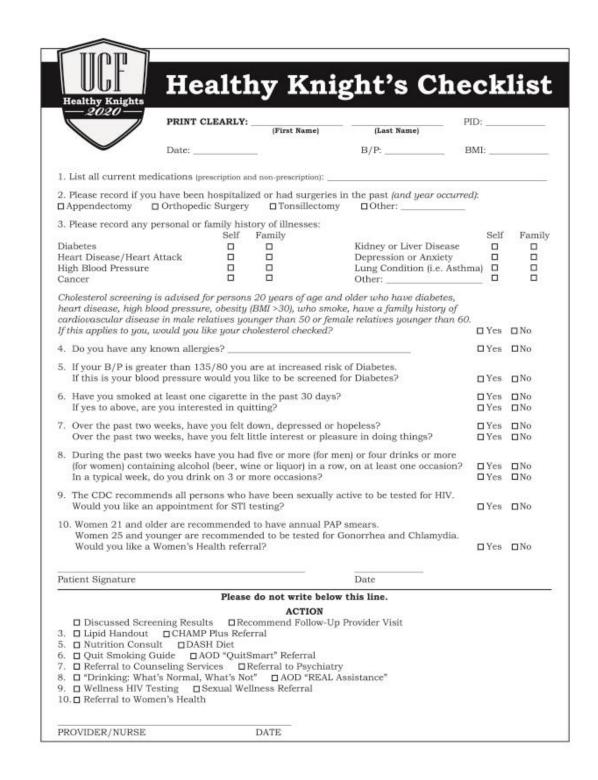


# 4. Workflows need to have practical outputs

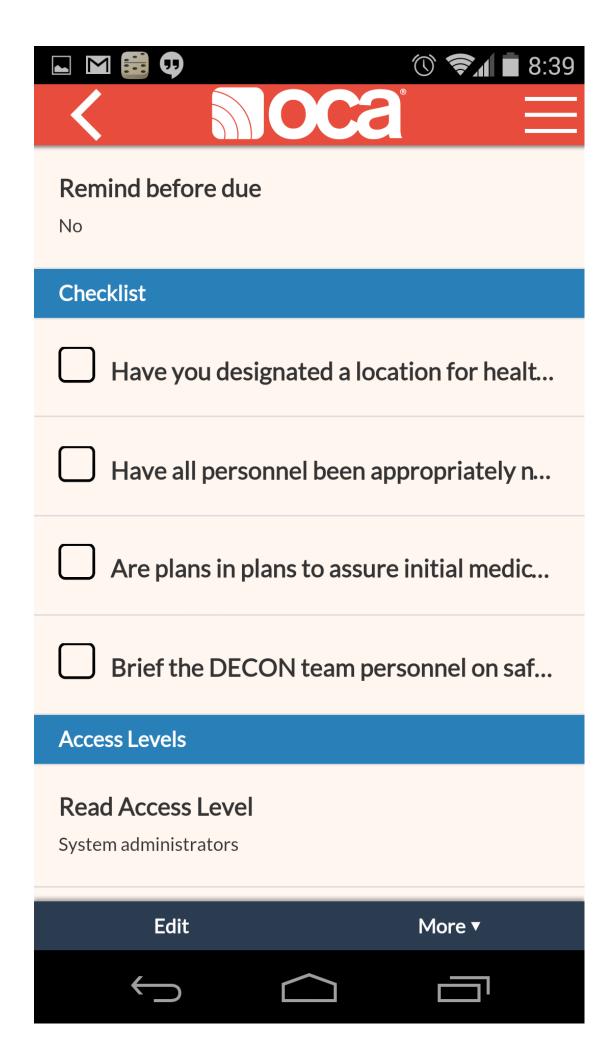
#### **MENTAL HEALTH OBSERVATION CHECKLIST**





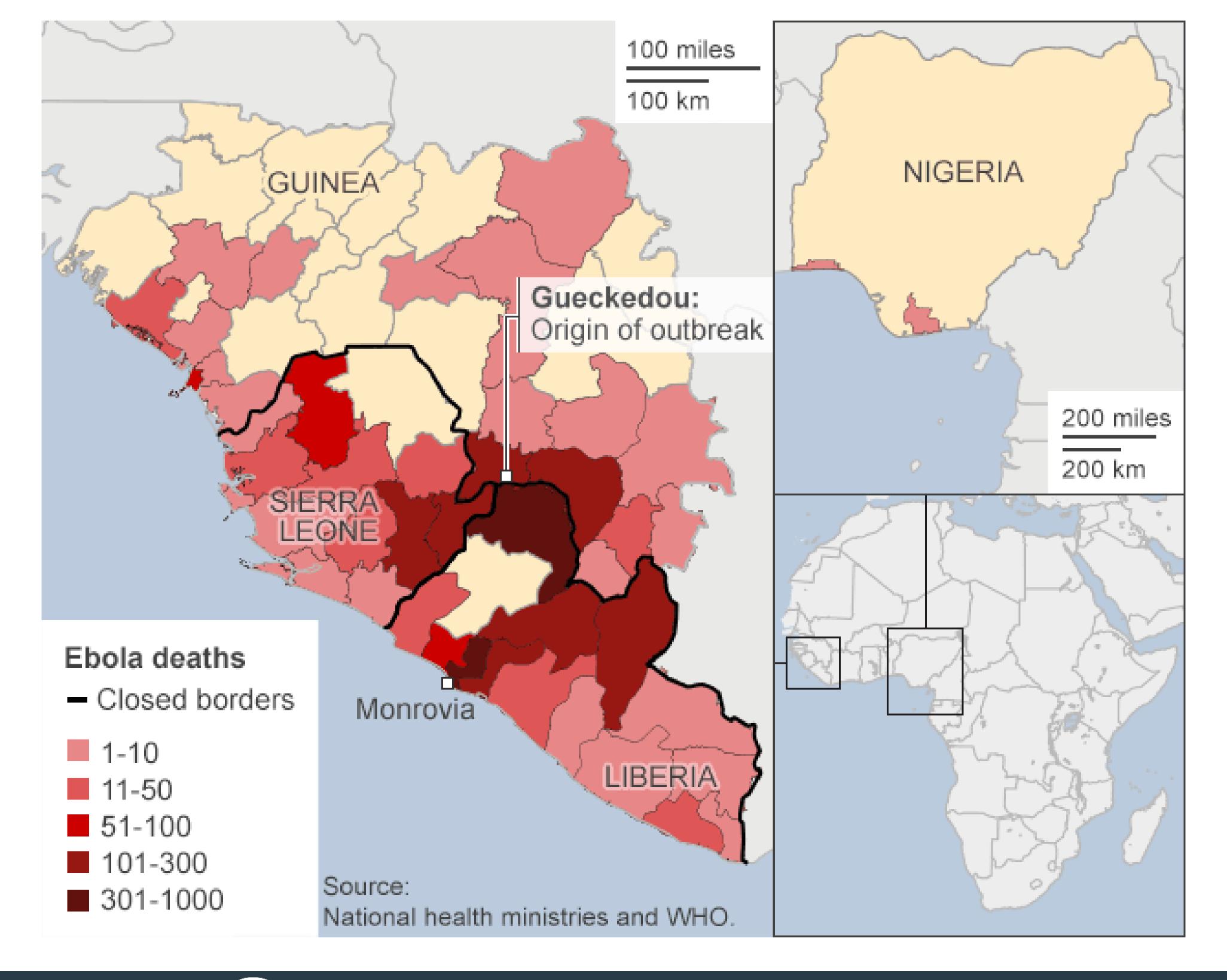




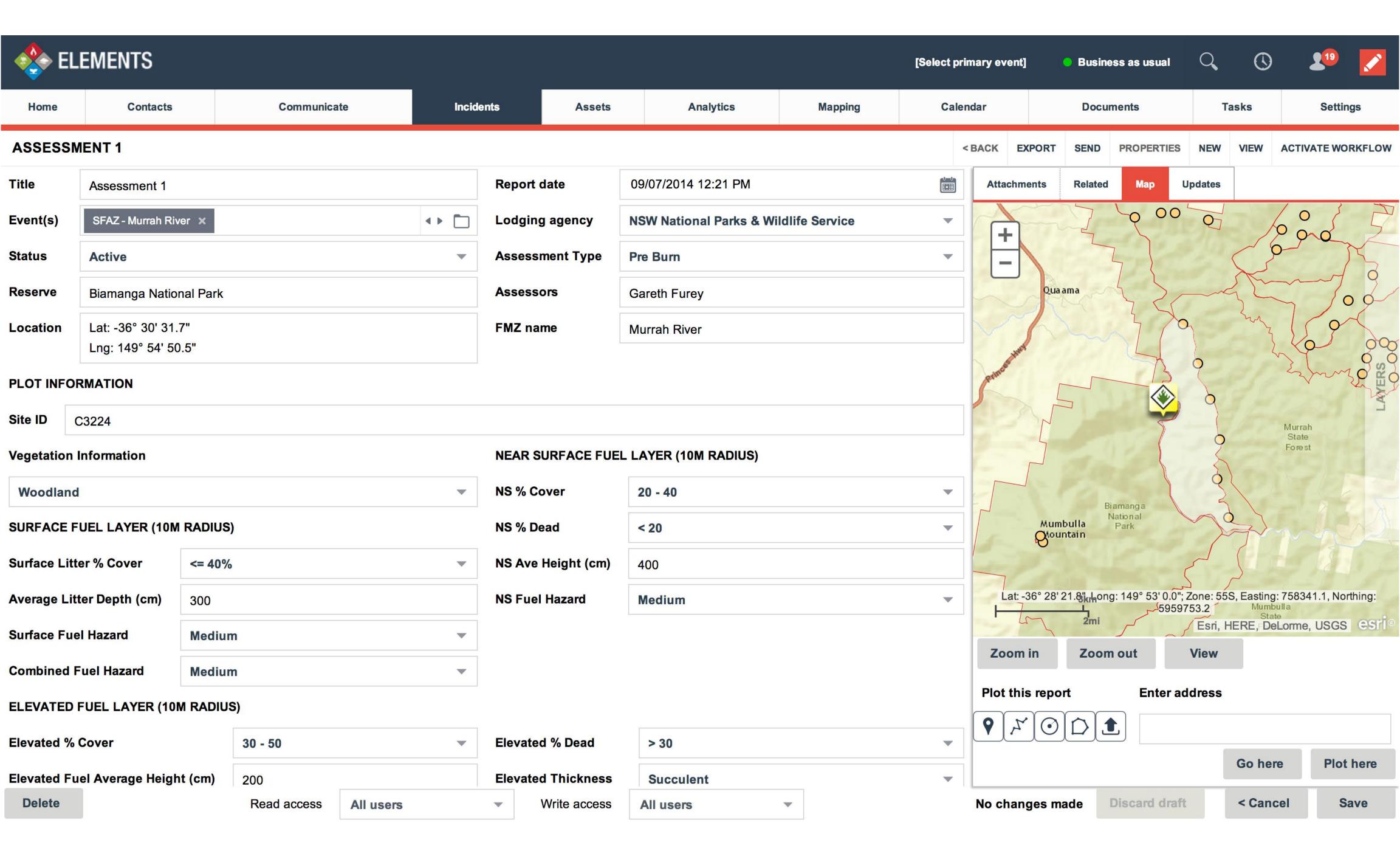




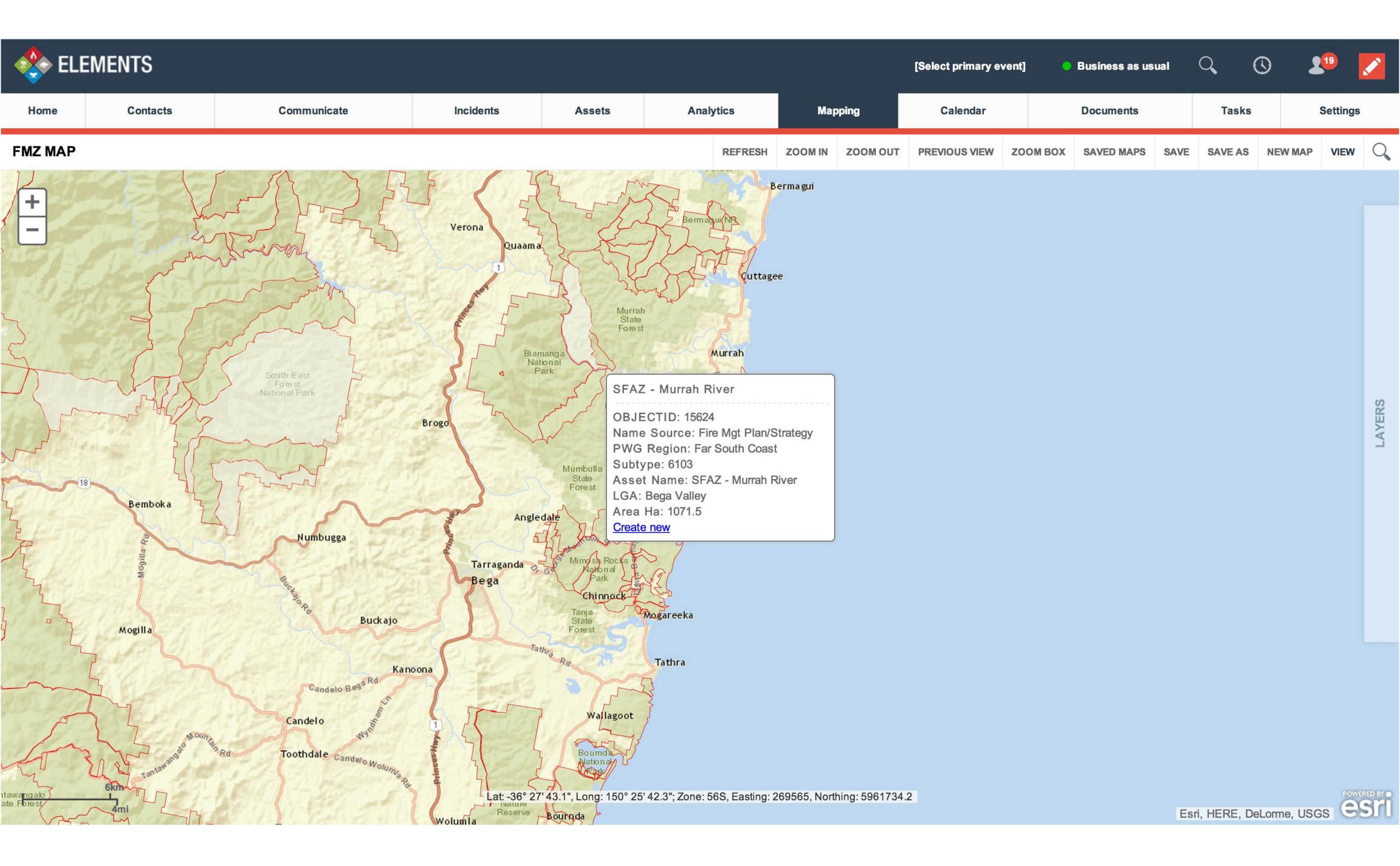
5. Make workflows data aware (eg geospatial aware)
Give them more situational awareness



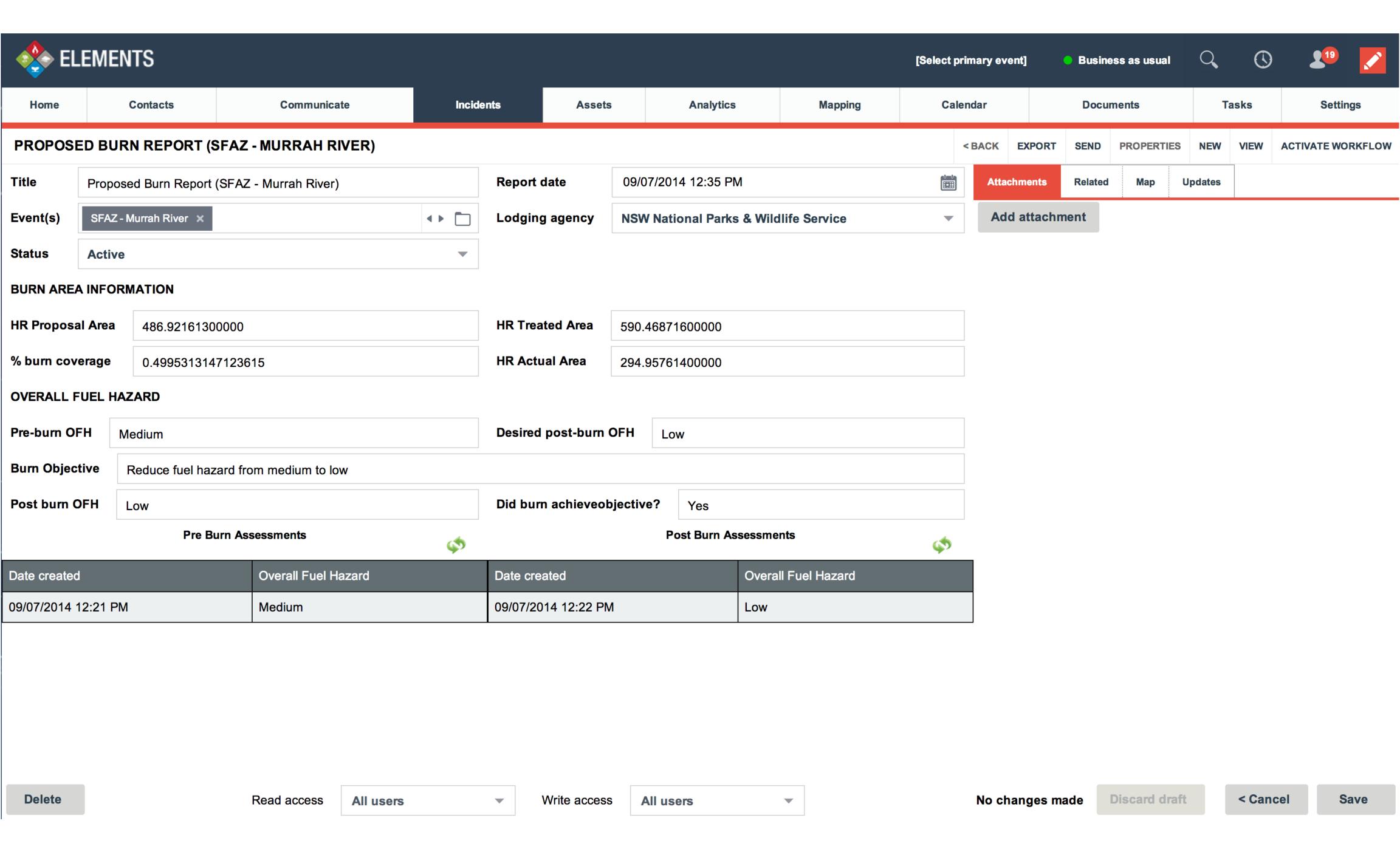
#### Fire Fuel Hazard assessments & calculations



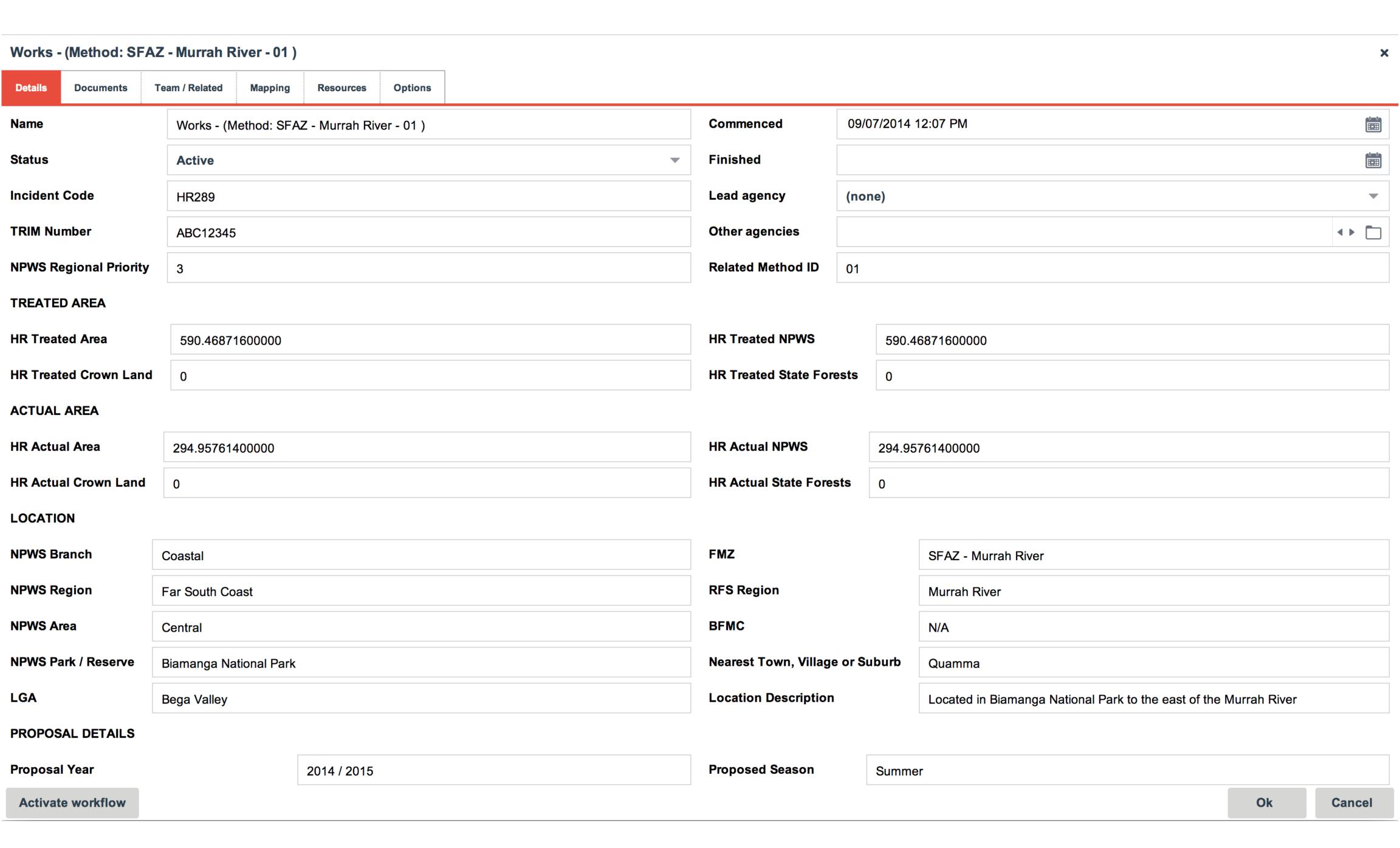
#### Create OCA records from ArcGIS features



#### Post-burn assessment geo-process



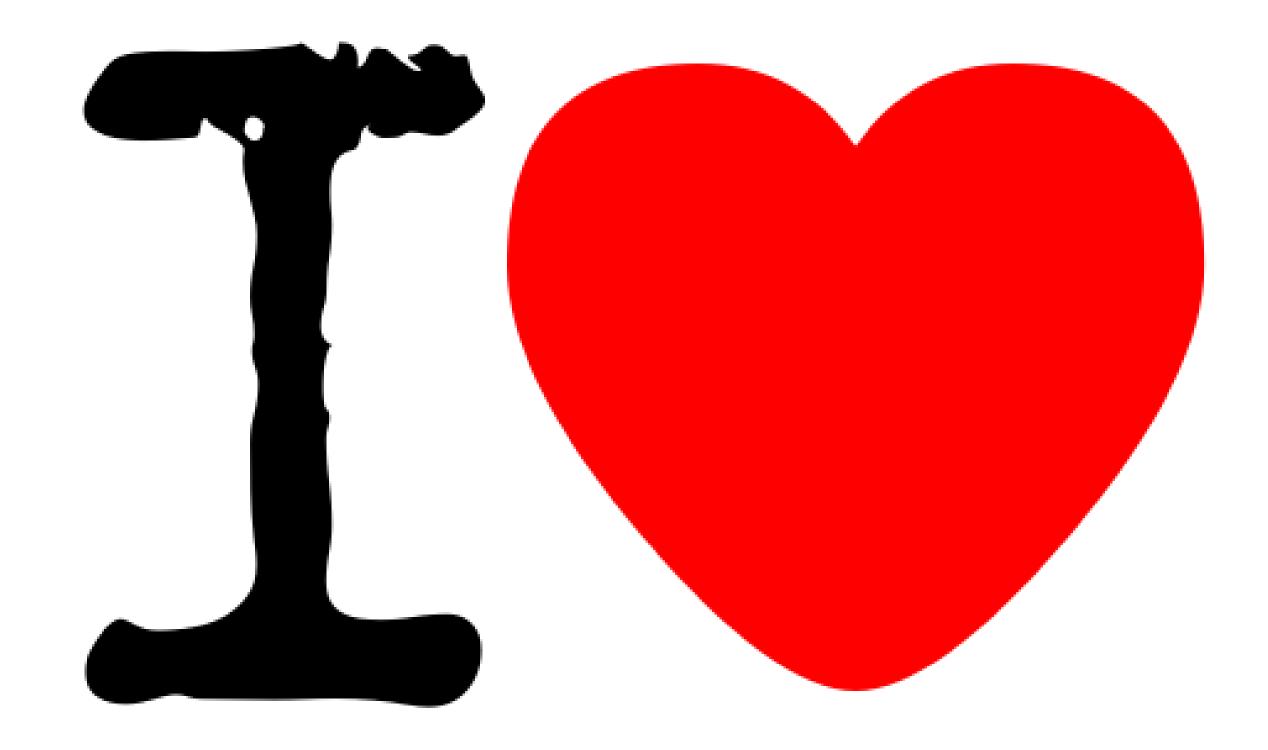
### Field lookups based on ArcGIS geo-process





#### Simple geo aware workflows like

- a) Been to geographical region = what do you need to know in terms of WHO information about that region
- b) Notify someone more senior based on their role and location relevant to the data input
- c) Activate a report, with detail filled in to expedite the distribution of the workflow
- d) Tracking personnel with permission



## Workflows

