

**ISSS**

4. – 5.dubna 2016 | Hradec Králové

# Co vše dokážete s mobilními aplikacemi

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Radek Kuttelwascher

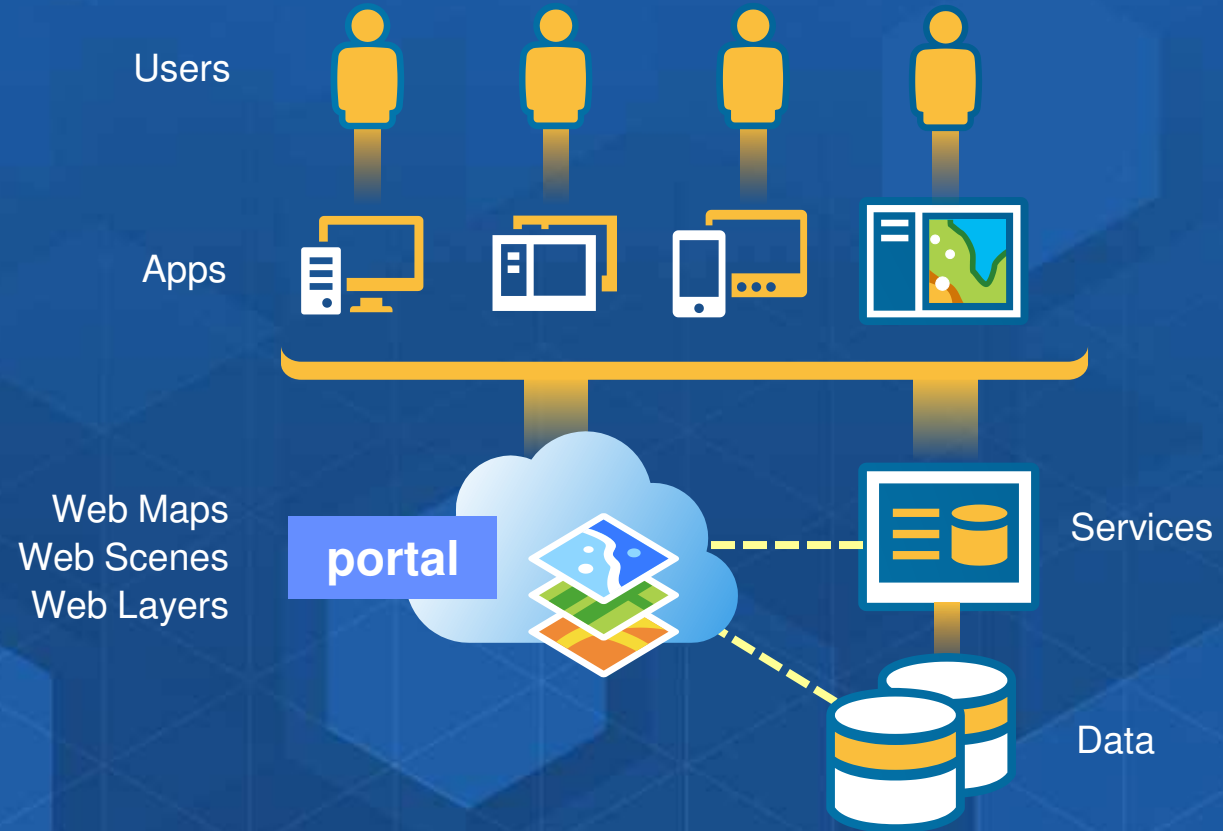
## Kruh se uzavírá

ARCDATA PRAHA  
 **esri** Official  
Distributor

# Práce v terénu



# Webový GIS



Zobrazit

Všechny

Mapy

Vrstvy

Scény

Aplikace

Nástroje

Soubory

Prohledat webové stránky nebo navštivte ArcGIS Marketplace



RÚIAN

Web Map

RÚIAN

OTEVŘÍT

PODROBNOSTI



ArcČR 500

Tile Layer

ArcČR 500



## Feature Layer

### Dostupnost neurochirurgie



## Web Mapping Application

### Přehled veřejně přístupných jeskyní České republiky.

## Lesní hospodářská mapa



Feature Layer

SORUŽENÍ AZYLOVÝCH DOMŮ V ČR

OTEVŘÍT

PODROBNOSTI

# Apps

► Aplikace ArcGIS jsou na mnoha místech



## V terénu

Navigator

Workforce



Survey123

Collector

## V kanceláři

Maps for Office

Dashboard

ArcGIS Earth



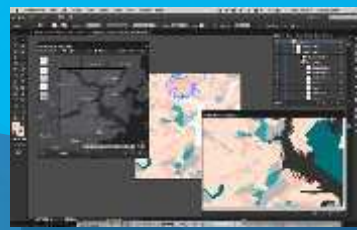
Drone2Map

Explorer

Insights



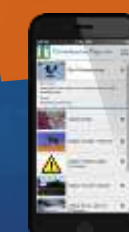
Adobe Creative Cloud



## Pro veřejnost

Open Data

Story Maps

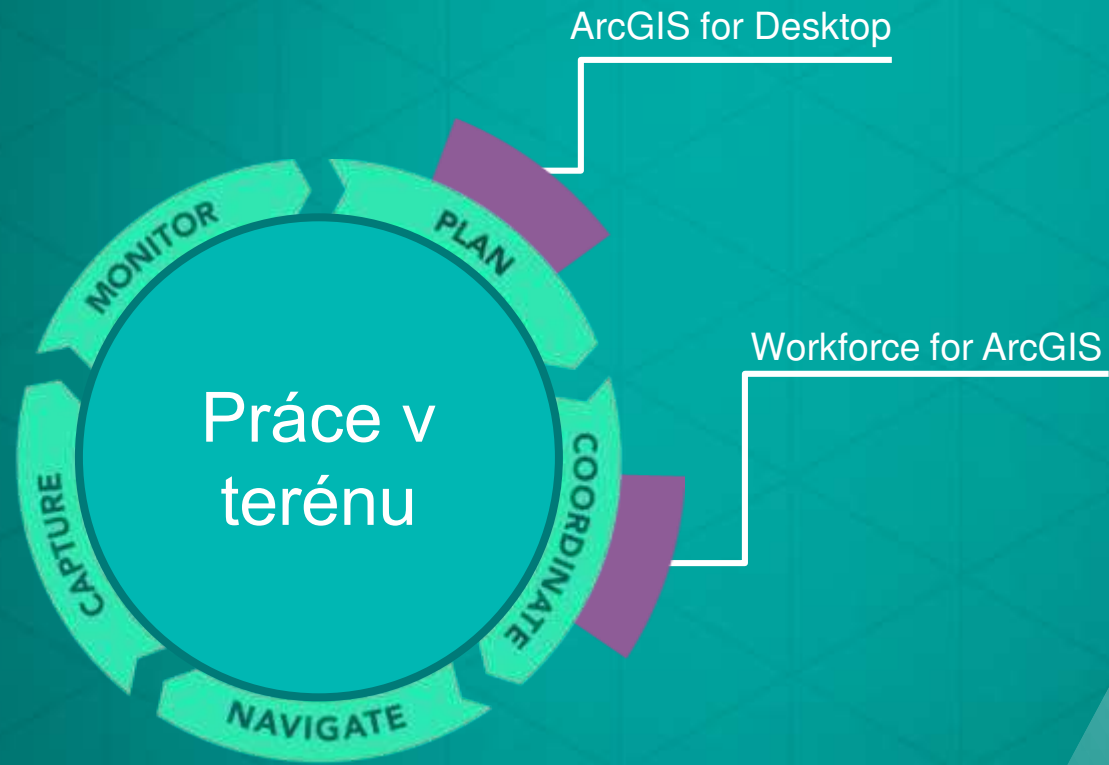


Crowdsourcing

*Jednoduché a rychlé zprovoznění*



# Workforce for ArcGIS

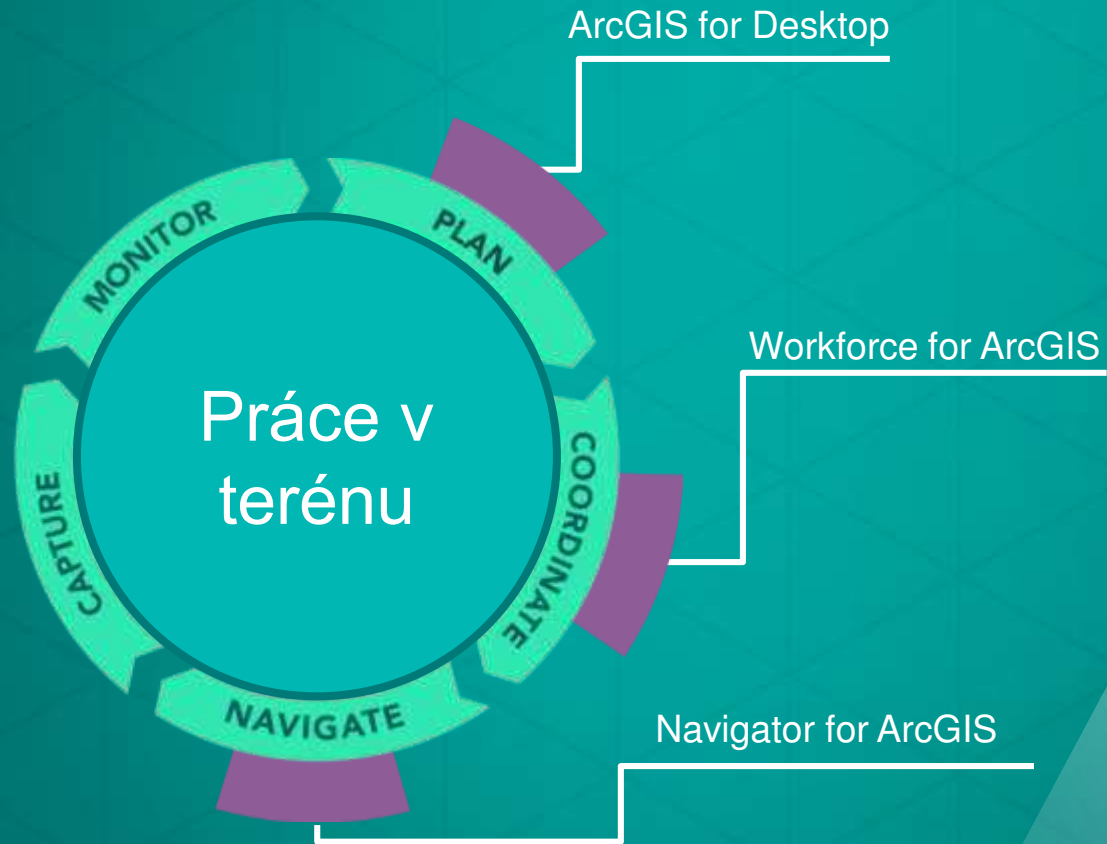


**Dispečer**  
Zadává úkoly



**Terénní pracovník**  
Přijímá úkoly

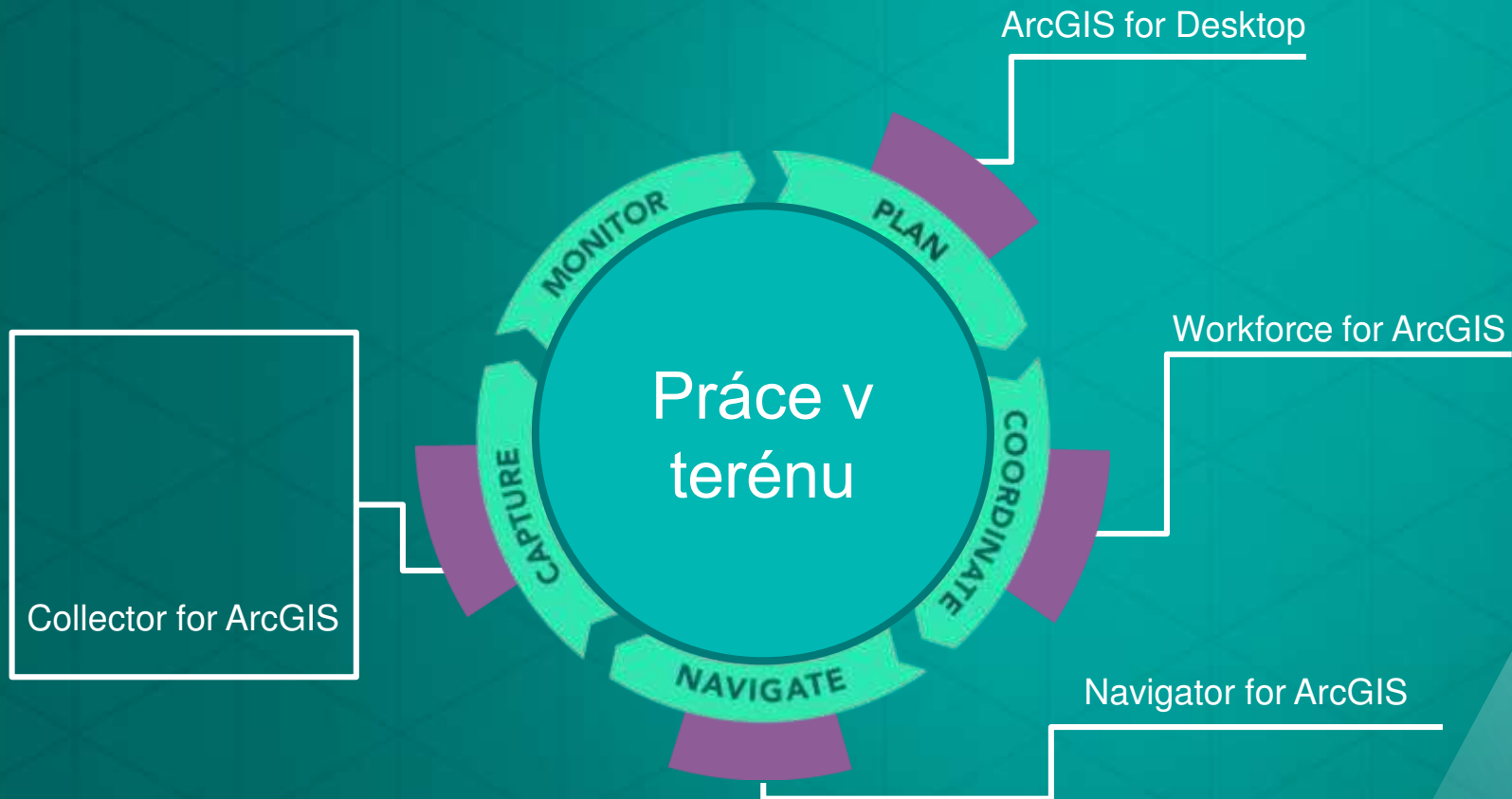
# Navigator for ArcGIS



Vlastní mapy

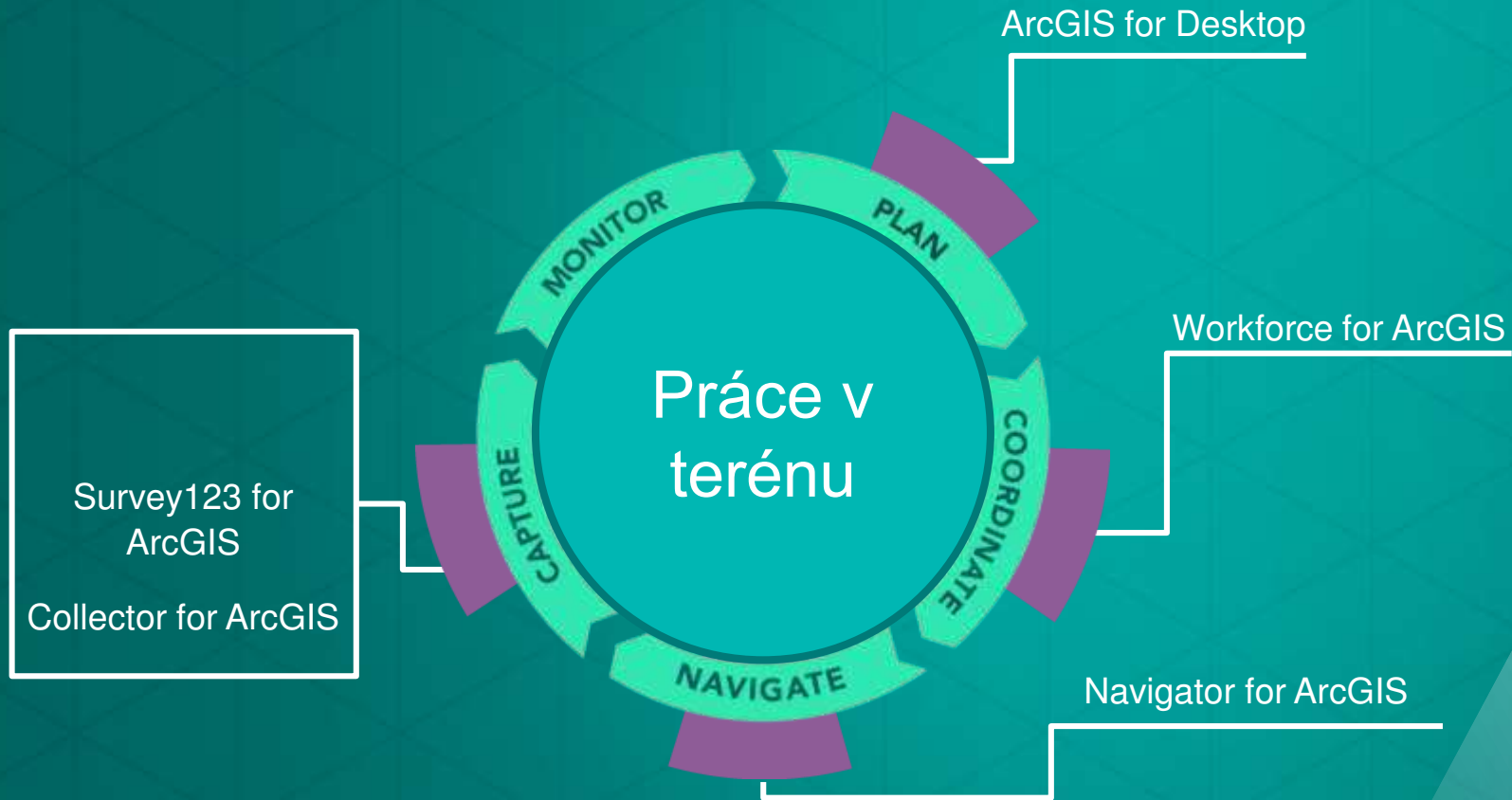


# Collector for ArcGIS



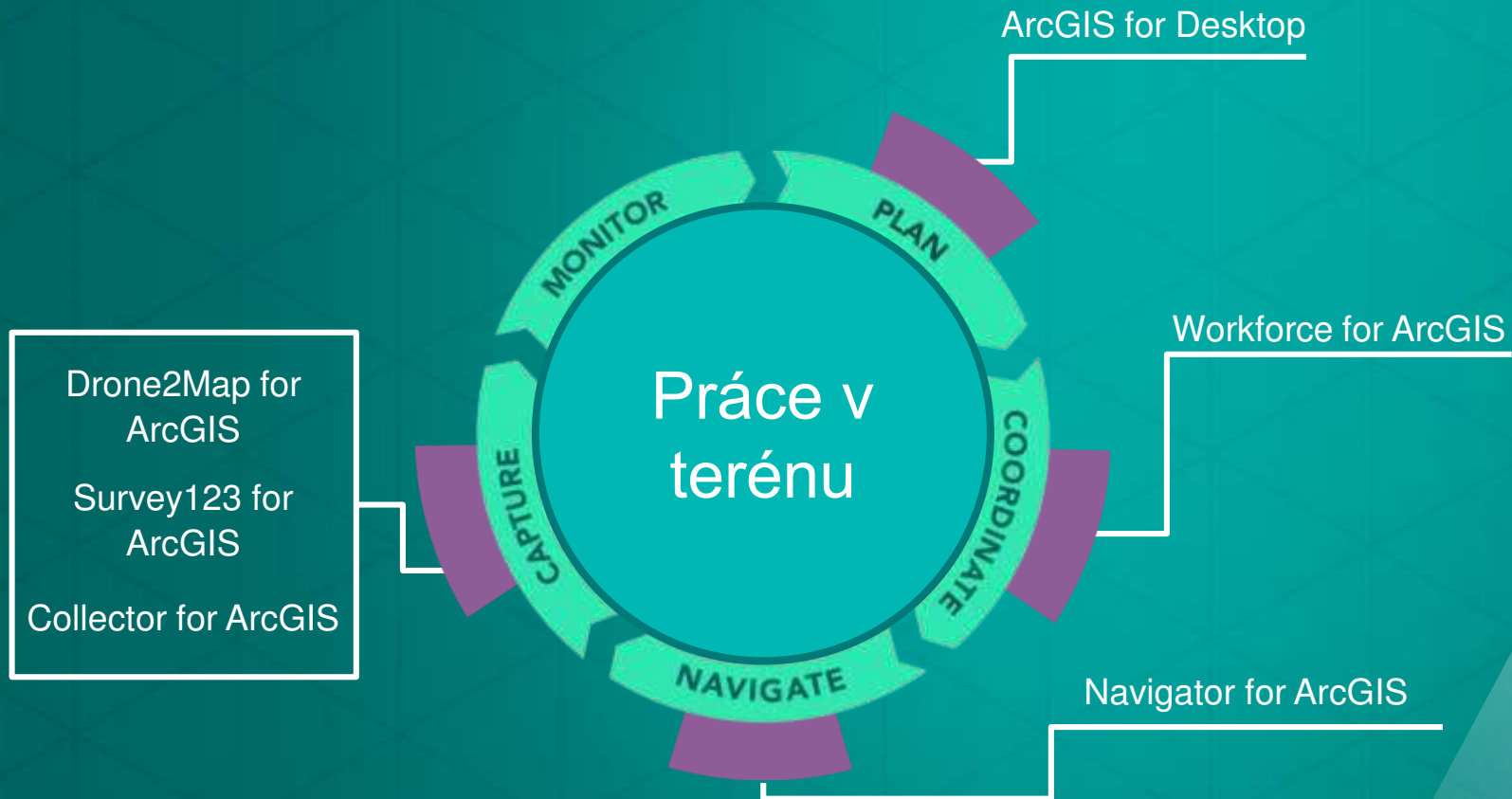
Sběr dat pomocí mapové aplikace  
Podpora Windows

# Survey123 for ArcGIS



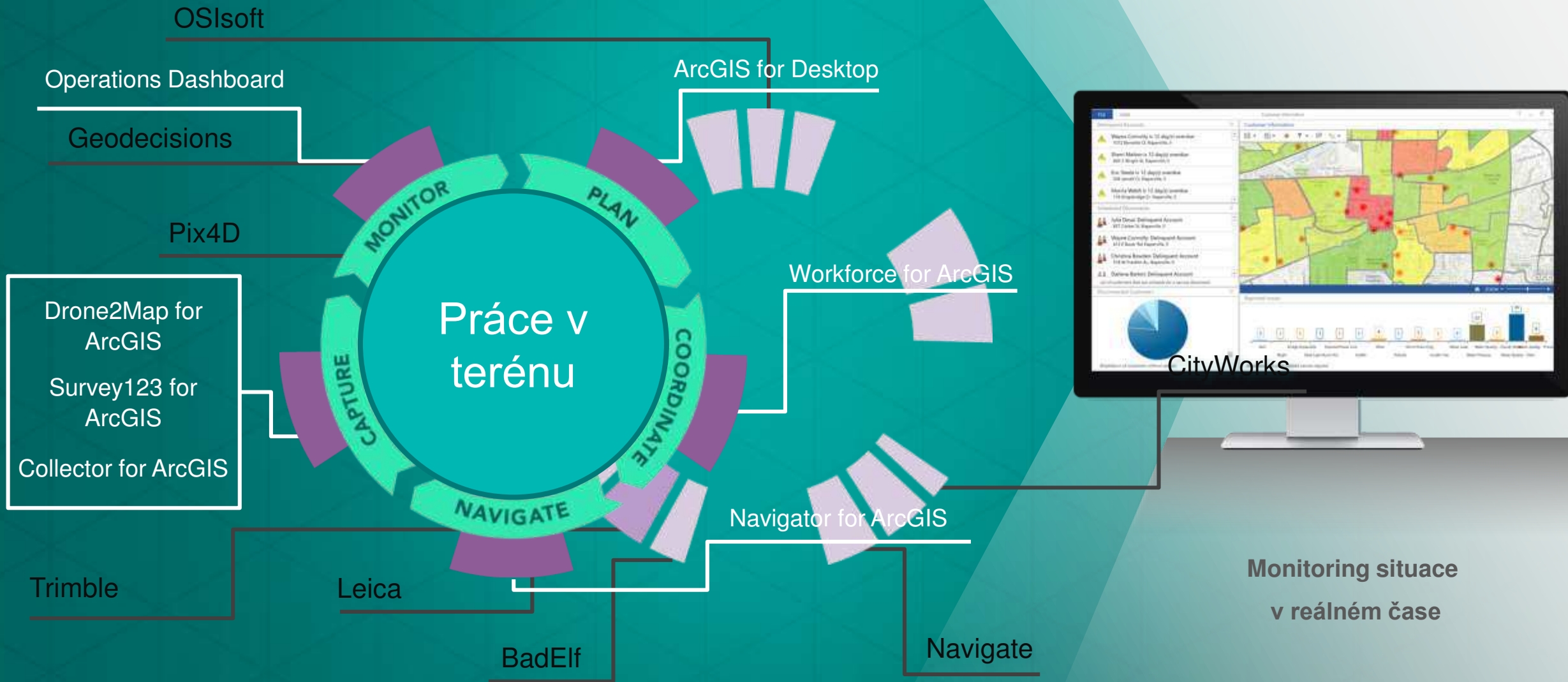
Chytré formuláře

# Drone2Map for ArcGIS

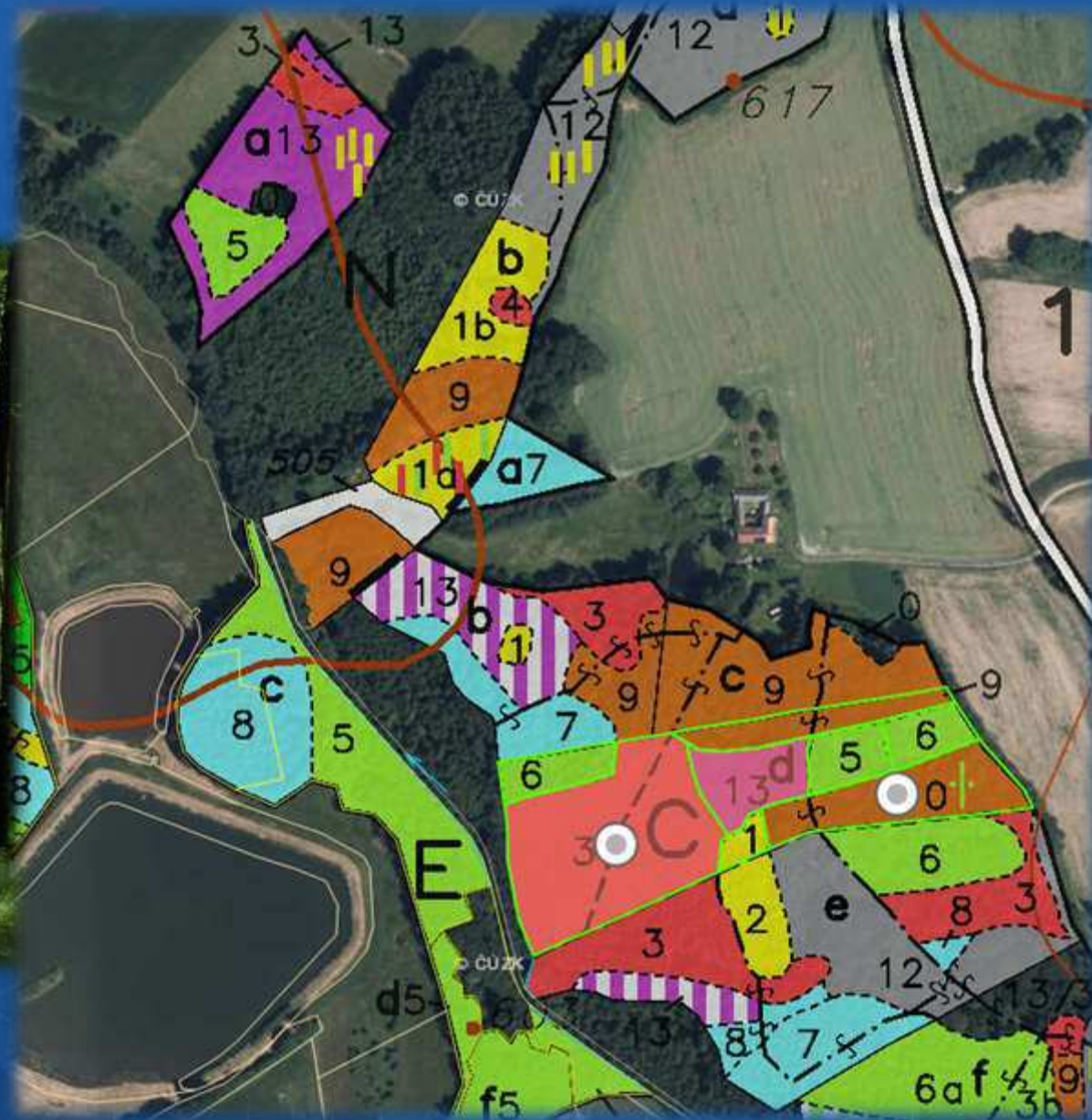


2D snímky, mračna bodů (point cloud),  
3D Meshes

# Operations Dashboard




# Lesní hospodářský plán



# Krok 1 - Dispečerská aplikace WorkForce – zadání úkolu









LHC Community  Radek

Assign ▾

Status ▾ Due ▾ Priority ▾ Assignee ▾ Sort ▾

16 assignments

- Nelegální těžba**  
Porostní skupiny: Dudín  
Medium Priority | ⌚ Due in 7 days 
- Nelegální těžba**  
Porostní skupiny: Dudín  
Medium Priority | ⌚ Due in 7 days 
- Nelegální těžba**  
Porostní skupiny: Dudín  
Medium Priority | ⌚ Due in 7 days 
- Výskyt kůrovce**  
Porostní skupiny: Dudín  
High Priority | ⌚ Due in 7 days 
- Výskyt kůrovce**  
Porostní skupiny: Dudín  
High Priority | ⌚ Due in 8 days 
- Zalesnění**  
Těžby: 15358833707  
Medium Priority | ⌚ Due in 8 days 

# Krok 2 – Mobilní aplikace WorkForce – přijetí úkolu



T-Mobile CZ 14:08 61%

LHC

[List](#) **Details**

Zalesnění  
Porostní skupiny: Ustí u Humpolce  
Low Priority

Assigned by: Matej

1 Attachment

Notes  
Tap to add notes

**Navigate to Assignment**

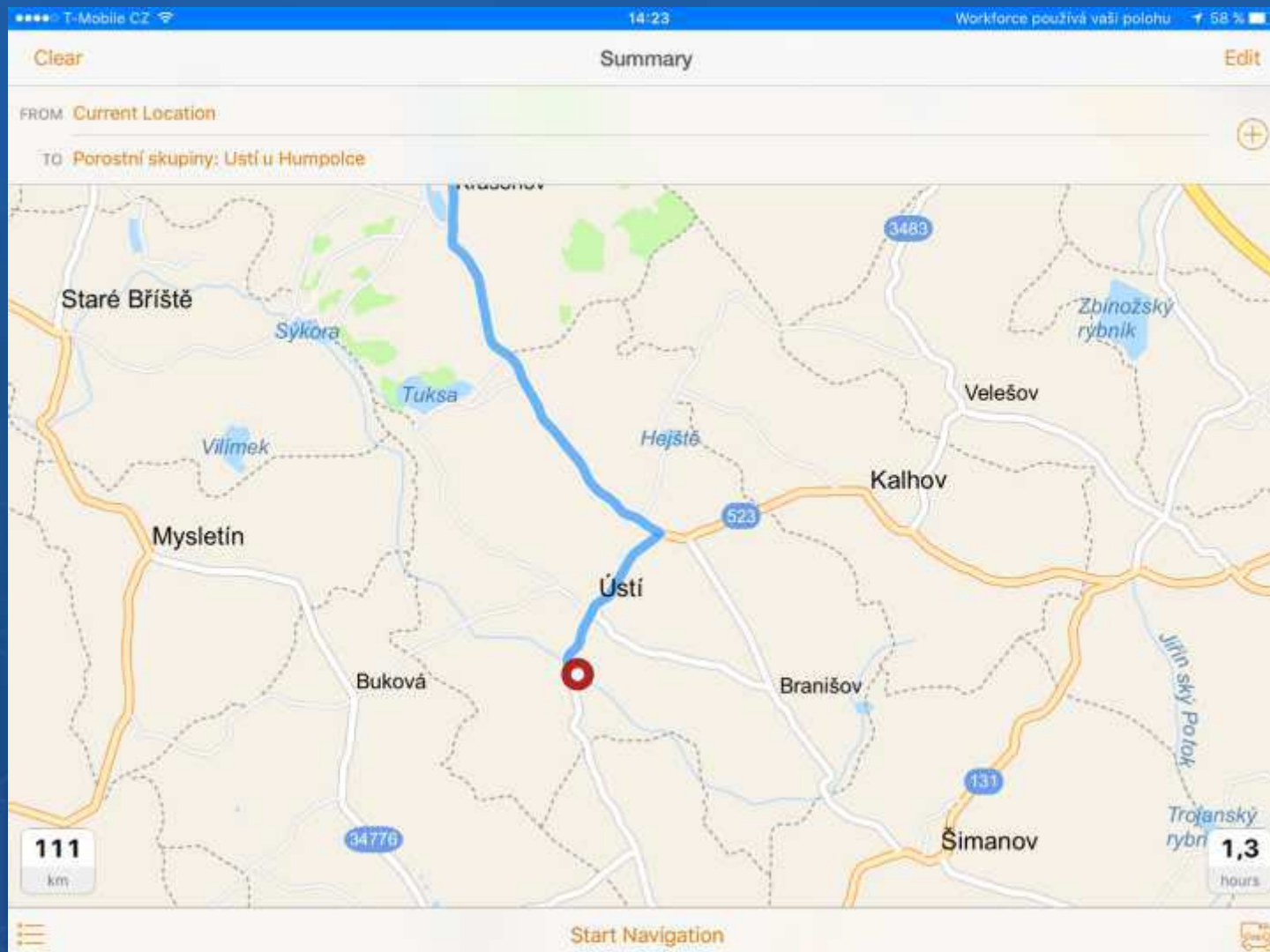
**Collect at Assignment**

**Open Survey123**

**Start**

Majitel:	4/103	LO: 16	Číslo diamra u dávk vrstev vína					
Kategorie/přikryv:	10	Zvl.St.:						
Popis porostu: <b>Porost na plošině ovlivňované vodou. Okraj VKP "Loučka u Hejnického potoka"</b>								
Por.skupina:	1	Plocha por.skup.:	0.72	Loc.typ.:				
Popis por.skup.: Věkové a druhově diferencovaná skupina. MD, DB, B0, JR, OS								
			%	cm	m	m3 b.k.		
Hosp.ouboj	Věk	Zakl.měř.	Dřevina	Zastropení	Výš. tloušťka	Výška	Objem střed kmene	Porostb.
571	7	9	SM	85		3		30
			BR	10		2		24
			OL	5		3		28
Por.sk.celkem:				100				

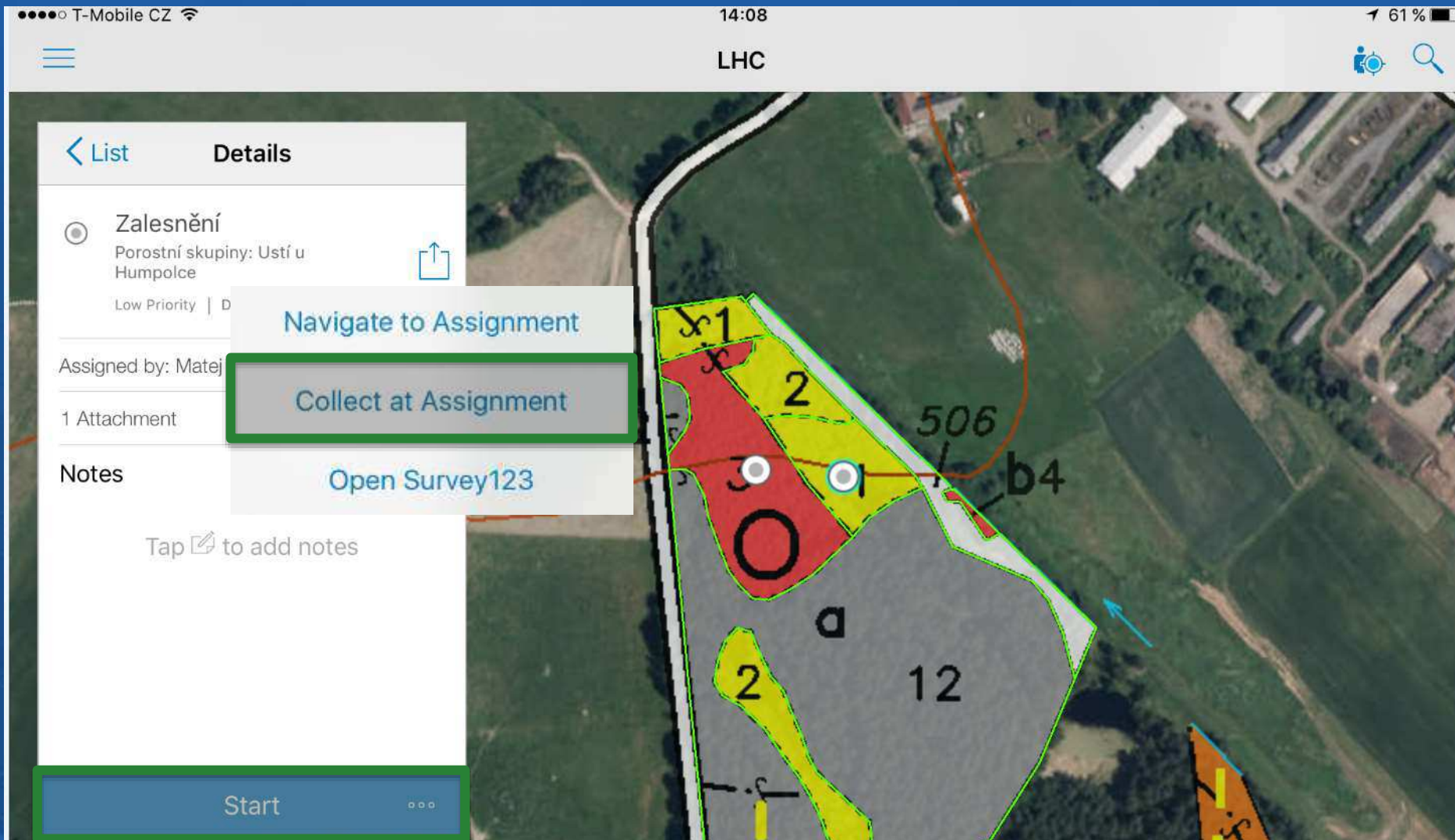
# Krok 3 – Navigační aplikace Navigator – navigace na místo



*vlastní Network Dataset*



# Krok 4 – Mobilní aplikace WorkForce – zahájení práce



# Mobilní aplikace WorkForce – sledování průběhu prací



... mezitím

 LHC



Inka Tesařová

1



Offline



Jiří Vomáčka

0



Offline



Petr Urban

8



Working



Radek AC Kuttelwascher

6



Offline

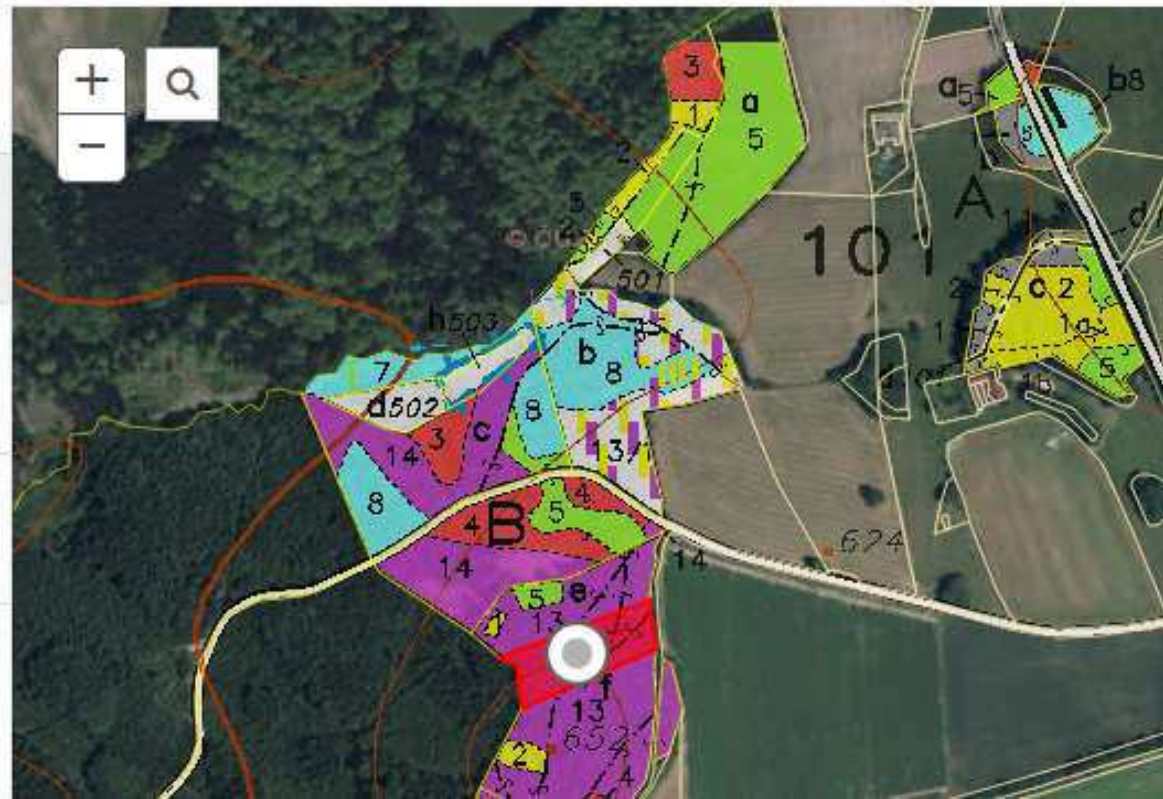


Matej Vrtich

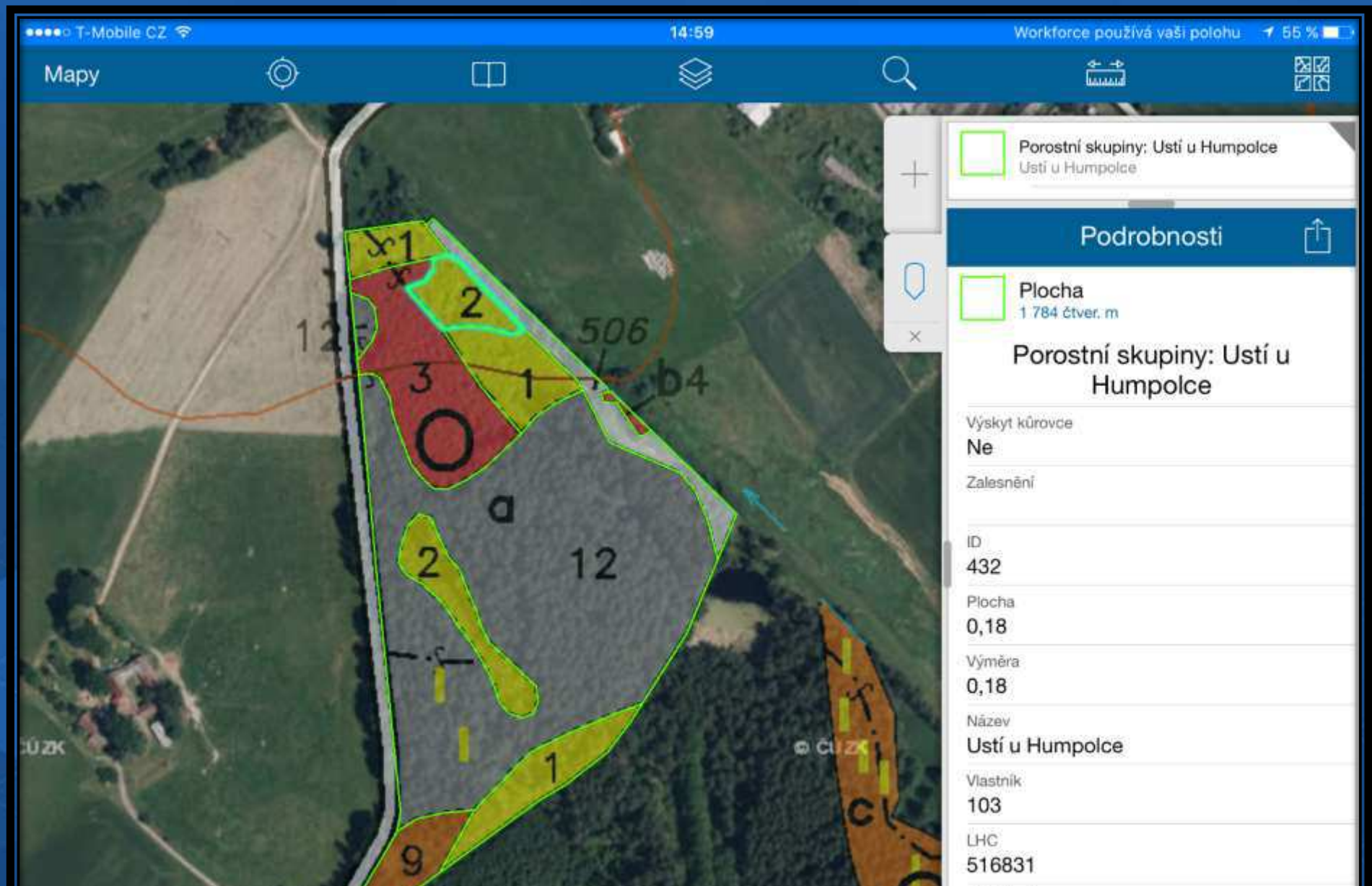
1



Offline



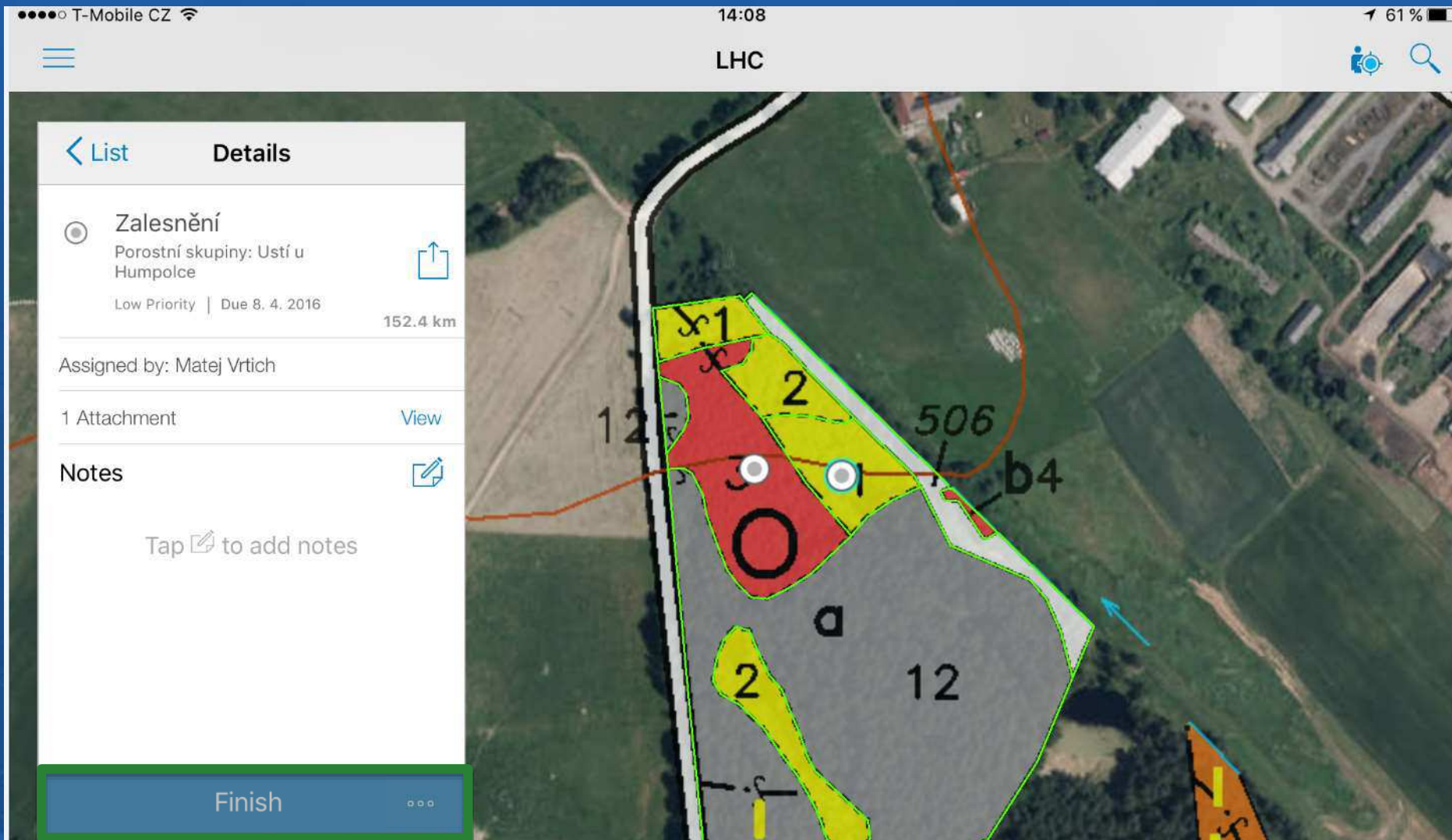
# Krok 5 – Mobilní aplikace Collector – sběr (aktualizace) dat



The screenshot displays the Collector mobile application interface. The top status bar shows 'T-Mobile CZ', the time '14:59', and 'Workforce používá vaši polohu' with a 55% battery level. The main map area shows an aerial view of a field with several colored polygons (red, yellow, grey, orange) and handwritten numbers (1, 2, 3, 9, 12, 506, 125, 104). A red circle is drawn on one of the polygons. The right-hand panel is titled 'Podrobnosti' and displays the following information:

- Porostní skupiny: Ustí u Humpolce
- Ustí u Humpolce
- Plocha: 1 784 čtver. m
- Porostní skupiny: Ustí u Humpolce
- Výskyt kůrovce: **Ne**
- Zalesnění
- ID: 432
- Plocha: **0,18**
- Výměra: **0,18**
- Název: **Ustí u Humpolce**
- Vlastník: **103**
- LHC: **516831**

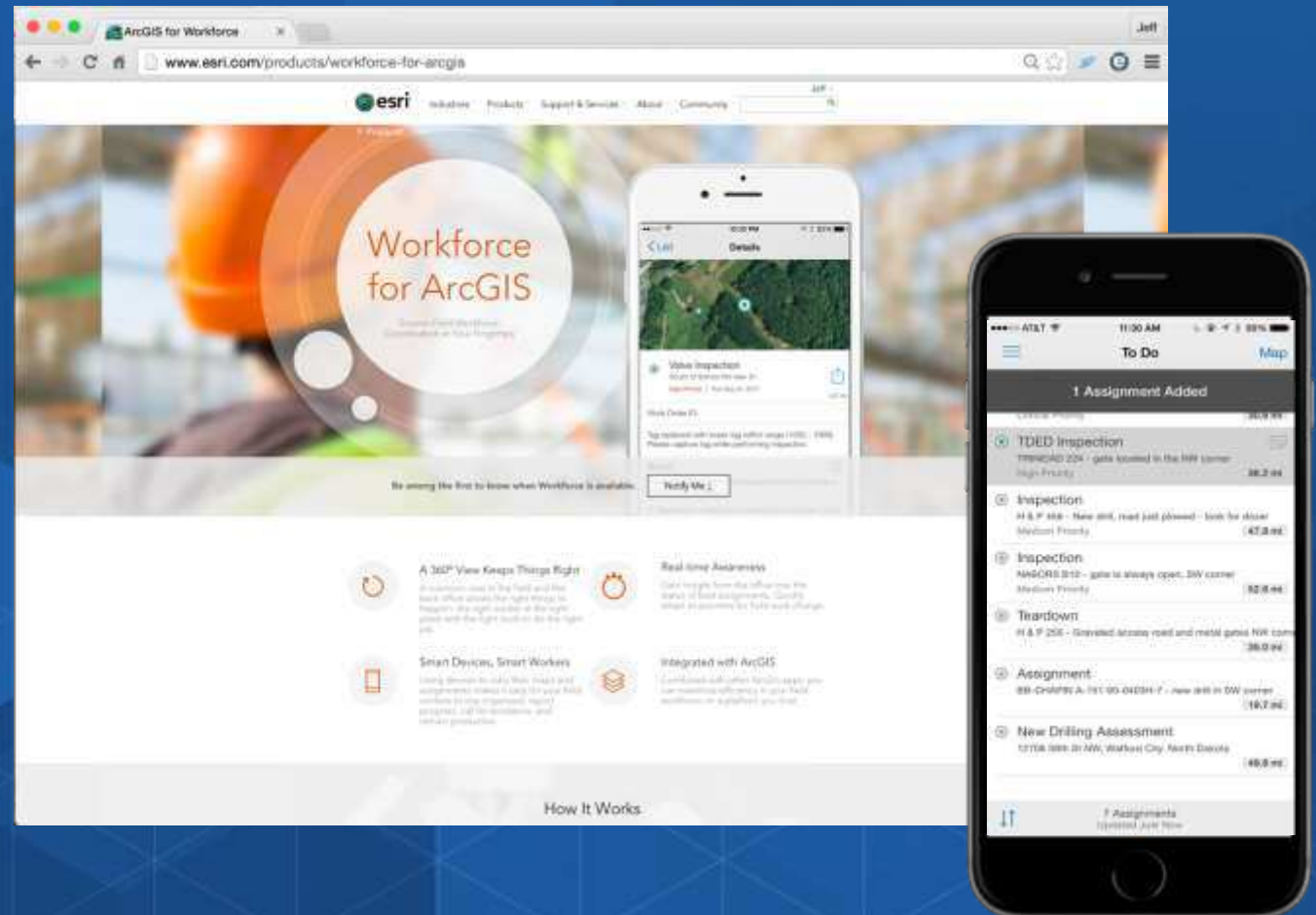
# Krok 6 – Mobilní aplikace WorkForce – potvrzení provedení úkolu



# Workforce for ArcGIS| Propojení kancelářské a terénní práce



- Optimalizace plánování prací terénních pracovníků
- Přijetí úkolu a hlášení stavu prací z terénu





# Collector for ArcGIS | Editace „Feature Layers“

- **Podporované typy:**

- ArcGIS Online (Hostované)
- ArcGIS Server (Vlastní)

- **Podporované operace:**

- Editace
- Synchronizace

- **Bublinové dialogy (Popups) a položky:**

- Formulářový přístup
- Využívá vlastností geodatabáze
  - Domény a subtypy
  - Relační tabulky
  - Šablony prvků
  - Sledování editorů

Editing  Enable editing and allow editors to:

- Add, update, and delete features
- Update feature attributes only
- Add features only

Export Data  Allow others to export to different formats.

Sync  Enable Sync (disconnected editing with synchronization).

Track Edits  Keep track of who created and last updated features.

Users can only update and delete the features they add.

**Configure Attributes**

Check the fields you want to display. Select a field to change its alias, order it, and format it.

Display	Field Name	Field Alias
<input type="checkbox"/>	{OBJECTID}	OBJECTID
<input checked="" type="checkbox"/>	{REPRESENT}	Owner / Occupant
<input checked="" type="checkbox"/>	{PRIMRES}	Primary Residence
<input checked="" type="checkbox"/>	{HABITABLE}	Habitable
<input checked="" type="checkbox"/>	{NUMOCCUP}	Number of Occupants
<input checked="" type="checkbox"/>	{STRINSUR}	Structure Insured
<input checked="" type="checkbox"/>	{EARINSUR}	Earthquake Coverage

Field Name	Data Type
SHAPE	Geometry
REPRESENT	Text
PRIMRES	Text
HABITABLE	Text
NUMOCCUP	Long Integer
STRINSUR	Text
EARINSUR	Text
FLOODINSUR	Text
FIREINSUR	Text
DEDUCT	Double
PREDISVAL	Double
STRLOSS	Double
TYPDAMAGE	Text

**Create Features**

<Search>

**Damage to Residential Buildings**

- Affected
- Destroyed
- Inaccessible
- Major
- Minor

Click any field to see its properties.

Field Properties

Alias	Extent of Damage	
Allow NULL values	Yes	
Default Value		
Domain	daDegreeDamage	
Length	20	

Import...

To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.

# Survey123 for ArcGIS

Chytrý formulář pro ArcGIS

**Getting To Know Your Survey**

Which of the following are true about you? 5-5

	Male	Female	Other
Are you currently employed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a student?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a parent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a professional?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a manager?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a teacher?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a government employee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a contractor?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a freelancer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a self-employed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a retiree?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a homemaker?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a volunteer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a student?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a professional?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a manager?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a teacher?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a government employee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a contractor?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a freelancer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a self-employed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a retiree?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a homemaker?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are you currently a volunteer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Digital Asset Condition (DAC) Condition Survey Form**

Customer ID: [ ]

City: [ ]

State: [ ]

Zip: [ ]

Asset ID: [ ]

Asset Name: [ ]

Asset Type: [ ]

Asset Location: [ ]

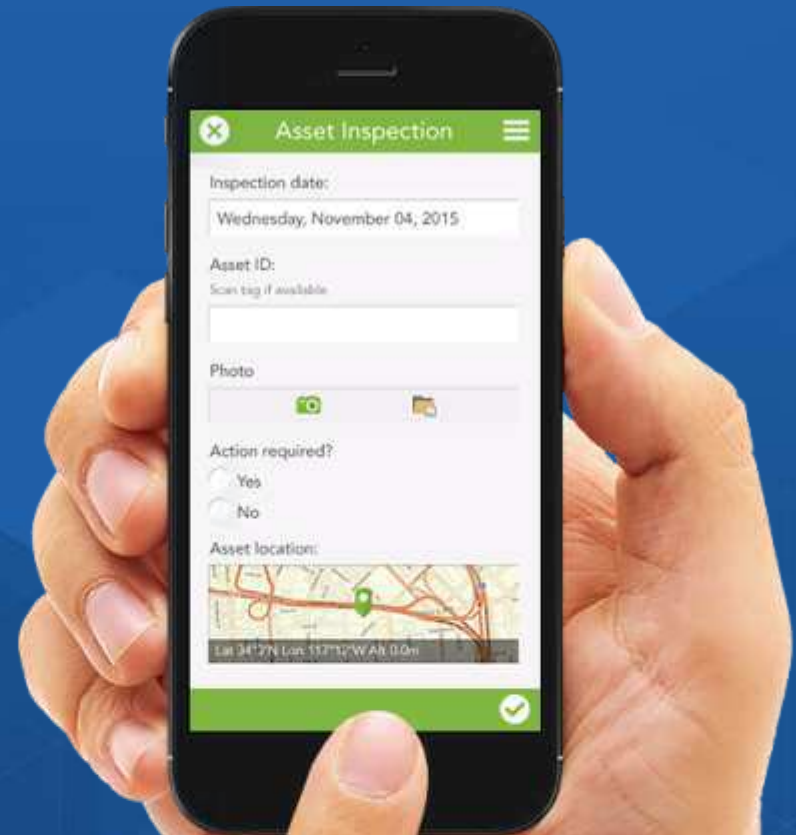
Asset Condition: [ ]

Asset Status: [ ]

Asset Date: [ ]

Asset Photo: [ ]

Asset Notes: [ ]



# Pozvánka na stánek ... co dalšího

# Č. 20

- Collector for ArcGIS
- WorkForce for ArcGIS
- ArcGIS for Desktop
- ArcGIS OpenData
- Drone2Map for ArcGIS
- VFR Import tool (Basic)





# ARCDATA PRAHA



**esri**

Official  
Distributor