

Geoanalytics as an End-To-End Solution

*Why geospatial industry needs to
extend its focus beyond just the geo*

Geospatial World Forum
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An introduction

The speaker



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The team



AI & Data Analytics

The company



PricewaterhouseCoopers

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Use cases with adoption gaps

1

Precision Farming

2

Local Governance

3

Climate Resilience

End-To-End approach

- They never anticipated automated processing, the structure and format are **optimized for humans**

“ *The data was filled in manually and is stored in three different systems* ”

Input pre-processing

Analytics

Visualizations

Process automations

End-To-End approach

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	Input pre-processing	Analytics	Visualizations	Process automations																
8	OMD62473	1	142	20131119	Bratislava															
9	OMD3586	1	142	20131119	Bratislava															
10	OMD17563	84	15	36	7.16E+09	1	Milada Tóthová	Viedenská cesta	142	Párnikovec	912 34	9204914934	2767944990	20121119	1	TVV000	2	20181016	Ulica Ľudmily Kr.	Bratislava
11	OMD88360	55	0	0	5.25E+09	1	Harold Urban	Vinohradnícka	139	Párnikovec	912 34	8939174911	2405036517	20131017	1	TVV000	2	20101124	Vendelínska	Bratislav
12	OMD77274	60	0	0	5.2E+09	1	Gašpar Kovács	Ďurgalova	145	Bratislava	831 01	6277297157	5524345101	20101110	1	TVV000	2	20181114	Barťoňova	Bratislav
13	OMD32274	70	0	0	1.1E+09	1	Erich Baľaš	Koreničova	139	Bratislava	811 03	1383663022	5342278487	20201115	1	TVV000	2	20191111	Bazantia	Bratislav
14	OMD62159	20	0	0	6.18E+09	1	Elena Horváthová	Novohradská	81	Bratislava	821 09	6376651182	1490580931	20181025	1	TVV000	2	20221219	Veľký Varan	Párnikov
15	OMD35117	125	0	18	5.16E+09	1	Vladislav Novák	Bučinová	70	Bratislava	821 07	5286170658	2807230200	20221015	1	TVV000	2	20141224	Záhradnícka	Bratislav
16	OMD74960	30	0	0	1.17E+09	1	Blahoslav Kovács	Attidova	10	Bratislava	851 10	6897736001	2075689728	20111224	1	TVV000	2	20151015	Júlová	Bratislav
17	OMD77175	111	15	18	4.16E+09	1	Božena Oravcová	Žrnovická	73	Bratislava	831 06	3794467256	3469188903	20151117	1	TVV000	2	20121210	Roľnícka	Bratislava
18	OMD19760	130	0	0	2.3E+09	1	Richard Novák	Limbová	3	Bratislava	831 01	2051983109	7753010850	20181027	1	TVV000	2	20121220	Rusovská cesta	Bratislava
19	OMD76805	50	63	719	9.66E+09	1	Milena Beňová	Biskupická	4	Bratislava	821 06	5206066058	5410236012	20211119	1	TVV000	2	20101010	Lodná	Bratislava
20	OMD16268	0	0	95	6.44E+09	2	Samuel Pavlik	Pod Glavicou	78	Párnikovec	912 34	9531546595	8451104941	20201027	1	TVV000	2	20151122	Ďumbierska	Bratislava
21	OMD67248	61	0	0	4.7E+09	1	Pravoslav Kováčik	Hečkova	46	Párnikovec	831 06	4131428908	8951183586	20161015	1	TVV000	2	20191024	Park pod lipami	Párnikovec
22	OMD097089	62	0	0	3.43E+09	1	Dobromila Šimkovič	Spoločenská	38	Bratislava	821 04	5201399197	8673041641	20141123	1	TVV000	2	20221111	Chotárna	Bratislava
23	OMD48740	88	0	0	8.98E+09	1	Miroslava Horváthová	Na skale	45	Bratislava	841 07	4963805016	6375453108	20221229	1	TVV000	2	20121015	Nový kameňolod	Bratislava
24	OMD59933	44	0	0	8.65E+09	1	Anna Horváthová	Viniferová	4	Bratislava	831 01	2629626864	1110905678	20151229	1	TVV000	2	20161019	Bradáčova	Bratislava
25	OMD74475	50	0	0	4.37E+09	1	Róbert Polák	Kollárova	26	Bratislava	841 06	4254130683	7517877199	20161220	1	TVV000	2	20121025	Čmeľovec	Bratislava
26	OMD27136	60	0	0	6.13E+09	1	Vladislav Németh	Sklabinská	30	Bratislava	831 06	1078431909	2646194514	20151214	1	TVV000	2	20141024	Za farou	Bratislava
27	OMD06951	30	0	0	3.07E+09	1	Hedviga Szabóová	Stavbárska	35	Bratislava	821 07	8145232891	3246963837	20191223	1	TVV000	2	20101117	Ulica Imricha Kr.	Párnikovec

End-To-End approach

- We need to get our hands dirty with imperfect client data
- Adding geospatial dimension is easier for us than for the client

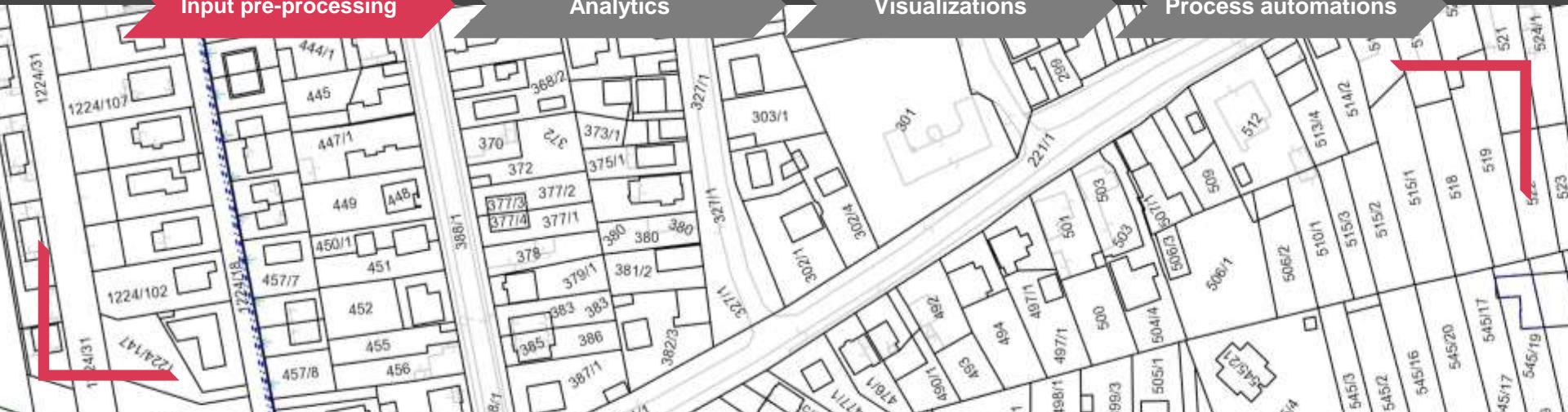
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End-To-End approach

- Sometimes we need to branch outside of GIS domain as well

“ The data was filled in manually and is stored in three different systems



End-To-End approach

- Training AI models to analyze EO data is easier than ever thanks to transfer learning

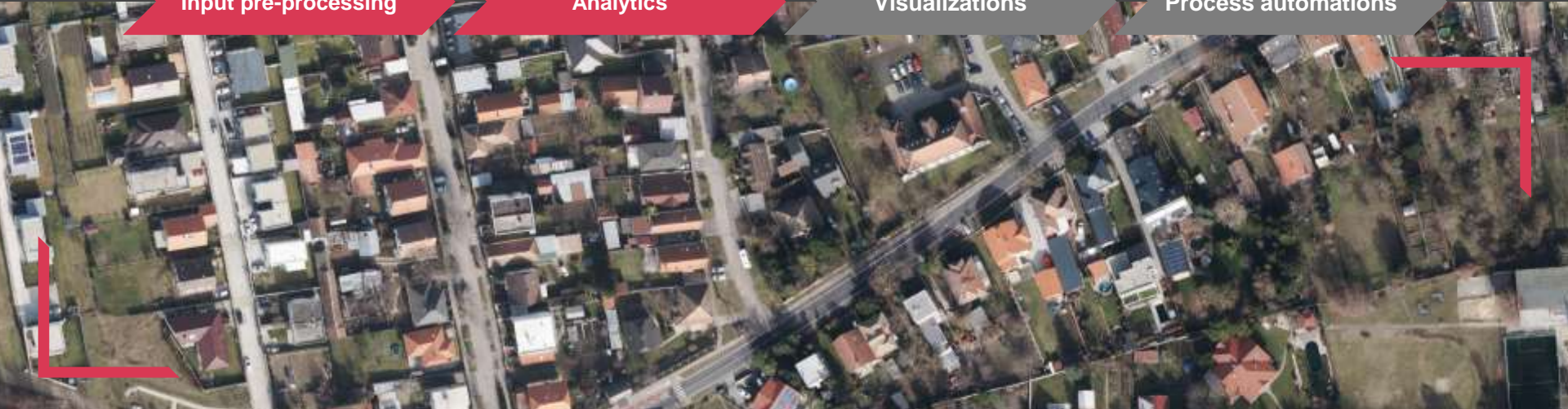
“Wow, I didn't know this was possible! (*accessible)

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End-To-End approach

- We can naturally understand geospatial data, we just need to have it presented to us in a familiar form

“ *What program do I need to use to open the results you sent me?* ”

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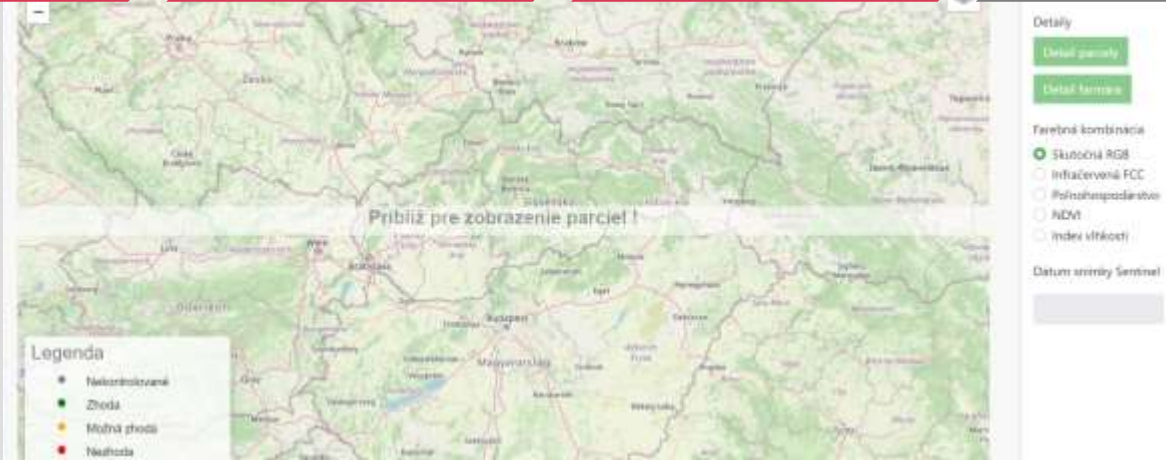
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End-To-End approach

- Automations allow utilizing new tech with existing staff

“ We don't have enough people to use the results you provided us

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End-To-End approach

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Zadajte identifikačné číslo odberného miesta

Identifikačné číslo odberného miesta

0M019276

Identifikačné číslo odberného miesta

3151588832

Vyhľadať

Conclusion



1. End-to-end solutions and managed services lower barriers of entry
2. We need to offer “access ramp” solutions to get more actors into GIS
3. Cooperation enables us to offer more complete solutions and to have local presence

Thank you

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