



- Nearly **10%** of images sent to banks and insurance companies are digitally modified
- More and more of business processes become dependent on digital images – **scans** and **photos**

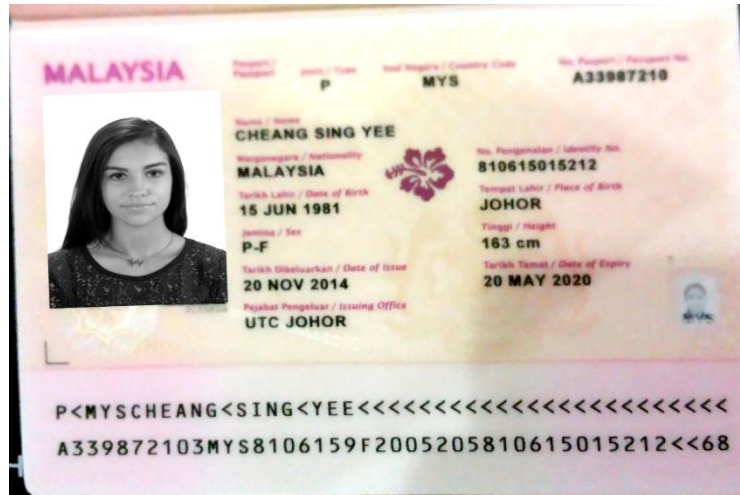


## PhotoN detects fake digital images

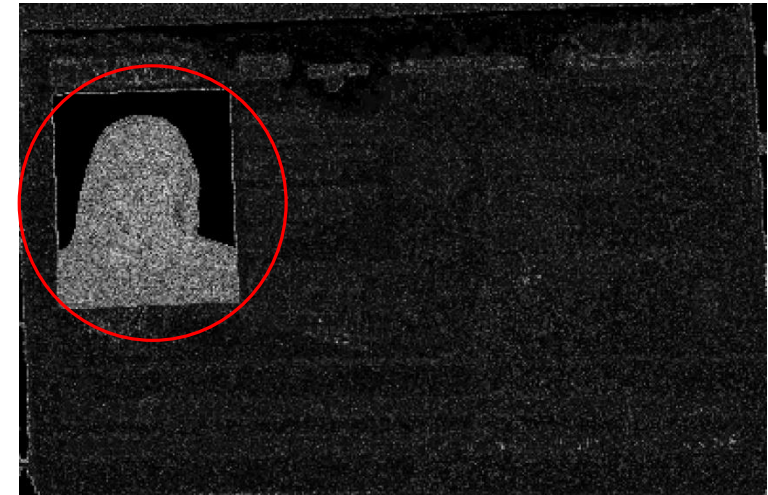
PhotoN includes two levels of digital image analysis:

- **Metadata analysis.** Each photo has hidden information (metadata) that is always changed after any editing.
- **Deep digital analysis.** On this level we analyze the inner structure of the image, where all modifications leave digital fingerprints by distorting the code on the border of edited fragment.





## Fake passport photo



## The result of digital analysis



Fake document scan



All interventions are highlighted



Войдите или [зарегистрируйтесь](#)





 Artyom Pasko ▾

 Запустить анализ

 Подготовить отчет

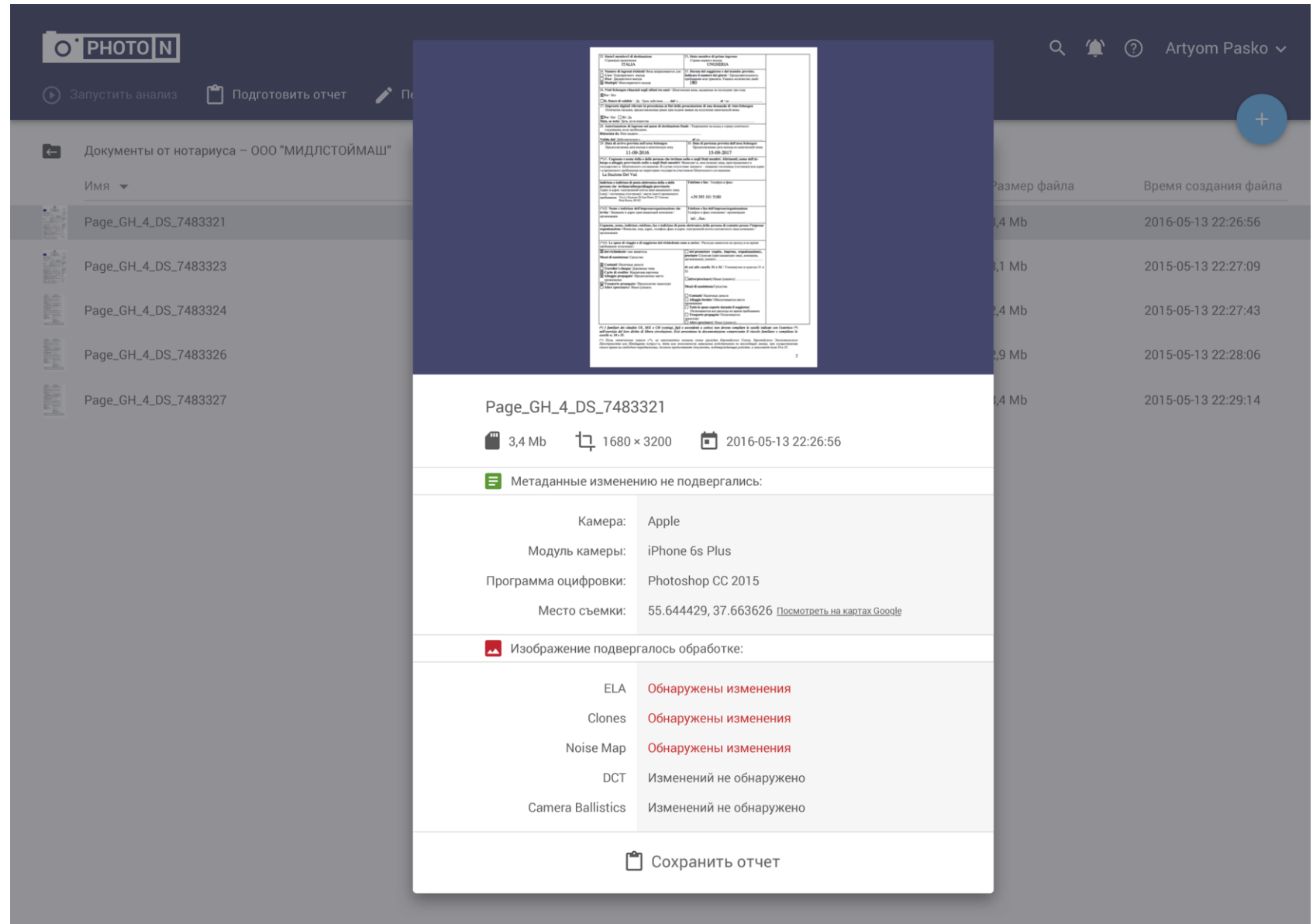
 Переименовать

 Удалить



| Имя                                                                                                                                        | Изображений | Результаты анализа                                                                                                                                                        | Загружено ▾ | Загрузил          |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|
|  Фото с места ДТП 19 июля 16 – Иванов Сергей Андреевич    | 13          |                                                                                        | Сегодня     | Вы                |
|  AUTO.RU – Camry 2012, 132 тыс. км.                       | 34          |     | Сегодня     | Mikhail Pavlov    |
|  Сканы загранпаспортов, 2 форма допуска ООО "МИДЛСТОЙМАШ" | 11          |     | Сегодня     | Mikhail Pavlov    |
|  Репортаж 12-06-2016 Северодвинск Россия-2                | 40          |     | Сегодня     | Svetlana Denisova |
|  Документы от нотариуса – ООО "МИДЛСТОЙМАШ"               | 5           |  Запустить анализ                                                                      | Сегодня     | Вы                |
|  Фото с места ДТП 17 июля 16 – Макаров Д.А                | 9           |     | Вчера       | Вы                |
|  Фото с места ДТП 11 июля 16 – Родниченко Олег Юрьевич   | 12          |   | 16 июля     | Svetlana Denisova |







## **PhotoN provides reliable fraud detection**

PhotoN analyses a code of images instead of applying popular recognition algorithms.



- **High reliability**

*Our algorithms allow to detect almost all kinds of fraud*

- **Big Data processing**

*PhotoN can work with several streams of images simultaneously*

- **Flexibility & Customer oriented approach**

*We implement and fit our system to unique customer's business processes*

- **Build-in digital signature**

*You can always see whether image was analyzed by system*

- **Several levels of digital analysis**

*You can easily configure the system to check images with only most suitable filters*

- **User-friendly interface**

*PhotoN is easy and pleasant to use, which psychologically reduces the amount of mistakes*

- **Built-in tutorial**

*You don't need to waste time and money on employees education*

| Features                          | <b>PhotoN</b><br>digital forensics software | PMI<br>(SMTDP) | Authenticate<br>(Amped<br>Software) | Izitru.com |
|-----------------------------------|---------------------------------------------|----------------|-------------------------------------|------------|
| Automation                        | +                                           | +              | -                                   | +          |
| Algorithm quality                 | +                                           | -              | +                                   | +          |
| Mistakes of first and second kind | +                                           | -              | -                                   | +          |
| Business-process integration      | +                                           | +              | +                                   | +          |
| Working with scans of documents   | +                                           | +              | +                                   | -          |
| Data flow analysis                | +                                           | -              | -                                   | -          |

The time required for PhotoN integration usually takes from 3 to 6 months depending on amount of required features and complexity of integration. As usual the steps are:

- **Awarding memorandum of understanding**
- **Pilot demo – analysis of photo/scans from customer's real database**
- **Discussion of the requirements for the system**
- **Establishing of technical requirements**
- **Pilot integration**
- **Primary testing**
- **Secondary testing**
- **Final integration**



