



LEGAL NEURAL NETWORKS
by Lawtest

WHITE PAPER

October 14, 2018

1. Abstract

It all started back in 2009, when our financial company Allmoney started working in London. The requirements to carry out the compliance of customers must be fulfilled and it is desirable to perform correctly and quickly. This was the beginning of developments in the automation of legal documents. Later, when the work was concentrated in Ukraine and our Financial Company UFC, conducted more than 1000 payments per month for more than \$10 million. The issue of customer verification has risen with renewed vigor. However, then all automation developments were based on working with databases: Kwalitan, PROTAN, Yoshikoder and others. And did not bring the desired result. The algorithm was tough, could not independently analyse the data, and even more so the change in legislation, which began to change in Ukraine very quickly and in large volumes since 2014.

A new interest in the automation of legal documents arose in 2016, when the market has already exploded with interesting solutions based on artificial intelligence. Neural networks, in contrast to the hard software algorithm can make a decision and learn. Analyse your mistakes and take into account the change in external data.

The first test work with neural networks, we began to conduct on the example of the test of Howey.

2017 was marked by the explosion of the ICO and discussion of what a token is.

When answering the question of what kind of token you have, utilities or securities, you do not need an exact mathematical answer.

Conducting the Howie test gives an estimated result, exactly what neural networks can do. Therefore, starting in May 2017, we started writing neural networks.

Over the past year, a lot of meetings with mathematicians, lawyers and programmers have been held, but the meetings were rather academic. There was no clear formulation of the draft and its timing. Financing of the developments was made at the expense of the income of the financial company.

Numerous experiments and the study of the latest scientific developments allowed us to determine the technology of the neural network, which is most effectively used in the generation of legal documents. For today, it is a kind of recurrent neural networks with long-short memory. RNN-LSTM.

In early 2018, to provide services for the production of legal documents-templates, we opened a specialized company lawtest.org. The name migrated from the first orders for the Howie test. The company was not advertised and did not have many orders, it was created for the future, to work in the European market.

The last straw that made us change priorities in our work was May 2018.

On the eve of the new requirements of the European Union for the storage of confidential data and, accordingly, the section of any site that describes the collection of user data-private policy, we received 50 orders and all of them were urgent, since on May 25, 2018 EU rules came into force and carried the risks of huge fines.

You know how many of those orders we managed to perform in manual mode? Only 3!

The remaining 47 customers paid their money to other companies.

On June 1, we postponed all business and started a new business with which we want to introduce you and to which we want to invite you.

When implementing the project, we saw the widest possibilities of neural networks and naturally, the development began to include not only legal documents, but everyday communication of each person.

FILL OUT ANY DOCUMENT WITHIN ONE MINUTE WITH HELP OF ARTIFICIAL INTELLIGENCE FROM LEGAL NEURAL NETWORKS

LEGAL NEURAL NETWORKS

CHOICE IS OBVIOUS

STANDARD TEMPLATE

- Blank template
- You thinking
- Writing Names
- Mistakes during fill out
- Writing your adress

NEURAL NETWORK

- Neural Network
- Not thinking
- Names filled
- Automatic fill out
- All filled

2. Product (One Page)

365 days a year, every month, every week and every day we receive letters, messages and emails. Good if you can ignore them or just throw away.

But what if this is a business letter, a summons to a court or an account, correspondence or an invitation from relatives? What do we do with these documents?

We spend our lives on them. Among your acquaintances there are people who spend 6 hours a day on it! You can check it out.

Because every average person spends on it from half an hour to an hour and a half every day.

It's good if you are the boss and you were lucky with an assistant or secretary. Although they are not only expensive, but they can get sick or just make a mistake like we all do.

We propose to solve this problem!

After receiving the document you need only upload it to our neural network. After analysing the document, the program will clarify your desired actions.

You choose what you want:

- Pay an invoice, and a reminder appears on your calendar, and the program prompts you to pay faster and easier, online or in two quarters at the bank;

- To refuse a contract or pay a fine and after 30 seconds on your device a reasoned document on your behalf that you can print or send immediately;
- Usual correspondence with neighbours and the neural network can support the topic on your behalf and so on.

Sounds unreal? Not any more. Today's development of neural networks and our patented decision to generate texts using an assistant, allows us to write not just a neural network as Shakespeare or the best lawyers, but to do this by honing our skills when performing each task.



WHAT IS LNN

- We create a universal platform for any legal action.
- Specialized legal neural networks working without fatigue and hourly pay
- Form any legal document and schedule of events for its implementation
- Conduct current case analysis on all legal issues and court cases
- Will check the latest changes in legislation

EVERYDAY CORRESPONDENCE - AS A GIFT

All companies without exception who selling templates, faces the common issue - template is not individual. Yes, companies have spent a huge amount of time and money, attracted to the development of templates of recognized experts. But no expert can provide for the template in all life

situations. Therefore all companies that do business on templates, offer additional consultations on the phones to help the client with the use of templates.

So, you already bought a service (template) and now you forced to spend additional time to understand how to fill it.

You have already understood from the previous paragraph the drawback of using pre-made templates: we take a template and insert our information into it. And if our question is not inserted into the template, we need to seek help from a specialist, so that he redesigned the template.

In our case we do contrary, we first take specific individual information and then generate a template.



Make photo the text with the data to be rewritten



Neural network produces document to print ready to sign

Example:

We create a neural network, teach it to legally and stylistically correctly write refusals to pay parking fines. When training we use thousands of examples, taking into account the staff, the city and so on. We bring to the training of recognized experts who specialize precisely in contestation of a fines. After our efforts, the neural network is ready to fight. It remains to give her a command.

The first and most important of our differences is the method by which we give the command of the neural network to get started. In the patent application, we have named this method the name of the "Prompter". It significantly limits the creative impulses of the neural network to write another Dostoevsky novel.

And in contrast to the academic term - attention, the prompter not only "prompts" to neural network, but in some cases makes it use data from incoming information. Such as your name, address, company name and so on. As result, we get a neural networks trained to create the same type of template documents, but with the help of an additional "prompter" module, the templates acquire an individual finished look.

How it works

- 1 There is a legal request
- 2 Draw up a document needed
- 3 No specific template
- 4 Limited Budget
- 5 No friends lawyers
- 6 Document is needed now

First you upload information to the prompter module. You can send a text file, copy an email, scan or just take a picture of any document or you can simply use your voice.

After receiving the information, the prompter recognizes it, analyses it, selects context words and sentences, and if enough information passes it to the neural network to complete the task. If the prompter finds that you gave

him insufficient data, he will ask you for more. Do not forget, the prompter is also a neural network and can analyse.

After analysing the incoming information and transferring it to a specialized neural network, after a few seconds user will receive individual template on his device, a virtually finished document. Which he can use at his discretion: print, send email, save and so on.

When the client comments on the quality of the document, the operator, in agreement with the expert, can make changes to the prepared document and repeat the operation on the neural network. Thus, the neural network will continue learning not only on its own, at the expense of iterations, but also with the teacher.

In case our client is company and it wants to train a neural network on its own, develop a personal corporate identity, we can sell a copy of the trained neural network to local storage and isolate the program from external sources of training. In this way, individual customers can obtain a local version of our product with the possibility of further training. And after several iterations, the neural network will begin to adopt the habits, style and vocabulary of the local host. When patenting this method, we used the term "family style. Trained "family style" neural network can generate outgoing documents with significant differences from the same trained network, but used publicly and is not limited. Such a locally trained neural network can learn to better use the local dialect and traditions. The owner of such a network can sell a trained network with its added value.

Such a neural network, unlike an assistant or secretary, does not ask for a salary increase, does not get ill, does not quit and does not move to a competitor.

But this does not mean that we urge you to fire your assistant or secretary.

We'll just increase the productivity of your assistant a hundred times and let you give him more tasks, and your secretary will be able to free up time to spend on something more pleasant for both of you.

3. Market economy and our monetization



Retired People



Entrepreneurs



Employees



Migrants



Drivers



Hunters



Parents



Heirs

When we assess the financial size of the market, we start with a well-known for us legal market.

The market of legal services in the US alone is almost 600 billion dollars a year, according to market research agencies MarketLine and Acritas. Thomson Reuters says that "only" 500 billion.

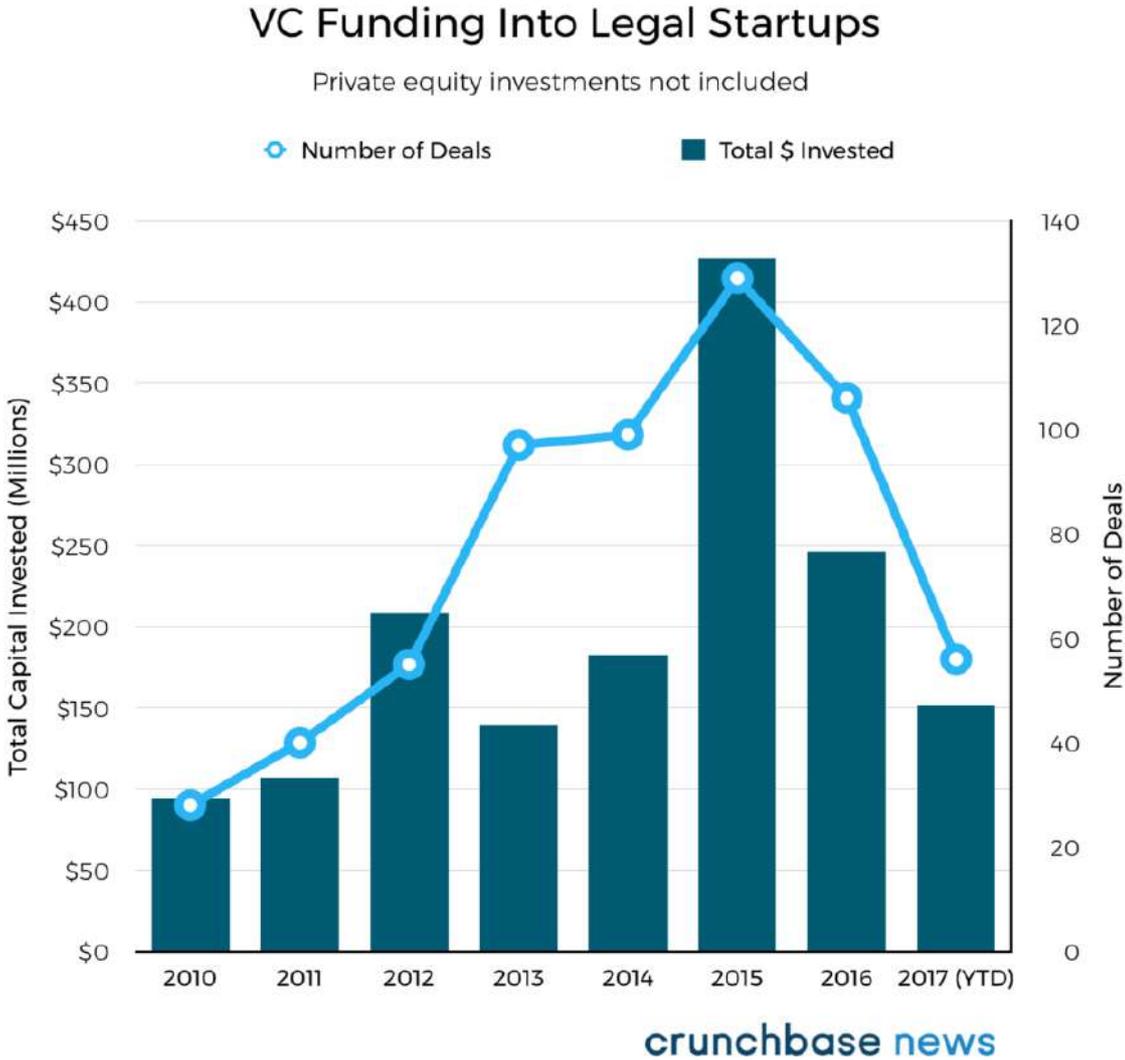
And this is not counting the hundreds of millions of dollars that are spent on the development of specialized LEGALTECH programs by large legal companies for they own need.

In the past five years there has been an explosive growth in the automation of legal services. All solutions in this direction, united by the common term LEGALTECH, are designed to simplify, speed up and reduce the cost of legal services. We can already observe the demand for services on legal templates.

Top companies among template sellers at www.business.com - report that they provide services to millions of users annually, with each template costing \$ 7-9, and a monthly subscription of \$ 30-50.

The market is formed and there is no need to waste time and money on generating demand.

Over the past five years, about \$1 billion was invested by venture capital funds in LEGALTECH development.



Company	The volume of attracted investments (mln. usd)
Legal Zoom	\$ 113
Avvo	\$ 132
kCura	\$ 125
Rocket Lawyer	\$ 53
Renew Data Corporation	\$ 51
Access Data	\$ 45
Axiom	\$ 36
Catalyst Repository System	\$ 32
Clio	\$ 26
Zapproved	\$ 17
Peppermint Technology	\$ 15

Well known Google Ventures invested 18.5\$mIn in Rocket Lawyer, perfectly aware of the need to automate the routine work on the preparation of documents.

It's the same Google that lowered the precision of its processors and gave a huge boost in performance when using these processors in neural networks. This is the same Google that two years ago stopped and threw all its technical developments on the translation of texts and built an interpreter from scratch, but on neural networks.

We also believe that it's time to drastically change the principle and methods of online preparation of all documents.

Will Google invest in our business or will we become competitors? Time will tell.

But in any case, thanks to investments in the technical means for the operation of neural networks of such giants as Google, IBM, AMAZON, thanks to the latest developments of mathematicians, we are on the verge of huge changes in manual work, the explosive growth of the use of neural networks is already taking place, do not stay away from this huge market!

The companies that sell templates [generate revenue from 100 to 200 million a year](#) each, jointly providing services for 2 billion, their main consumers are private citizens, we also plan with help of our patented method of educating of neural network to significantly increase number of corporate clients and help implement plans those lawyers who targeting future. According to Altman Weil research 47 percent agreed that it is possible to replace the assistants with the help of LEGALTECH technologies, 35 percent - employees of the first year and another 13 procedures They believe that they will be able to refuse service partners and we will be able to help them organize a market for professionally trained neural networks.

Do not forget, only in the US there are more than 1.2 million lawyers with licences, 3.4 million of their secretaries and assistants and more than 50,000 law firms. It is the legal companies of 300 billion and the legal departments

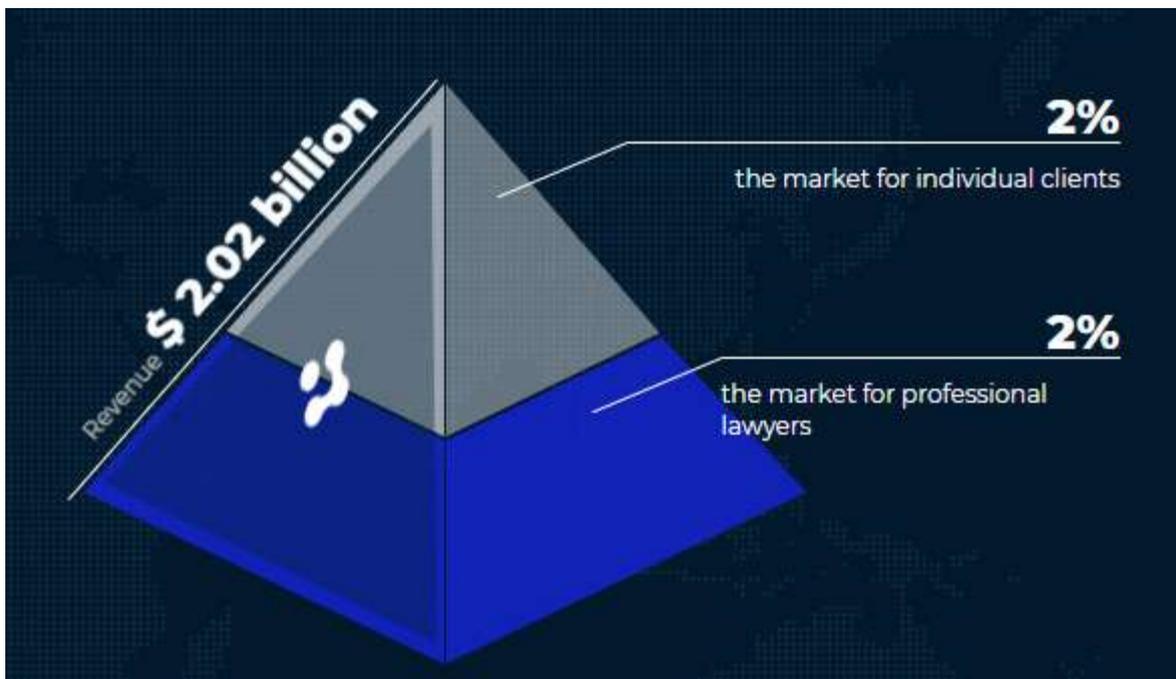
of the corporations that make up \$ 200 billion the main legal market in America. Make our product useful for the major players of the legal market is our main objective.

The usual sale of individual patterns of neural networks allows you to count on the average market result - about 80 million dollars of annual revenue.

But the use of our product by corporate lawyers, allows you to count on income ten times more.

Our humble task for three years to get 2% of the corporate market and 2% of the market for private clients. These small and achievable percentages total more than \$ 2 billion in annual revenue only in America.

And since neural networks are exceptionally well-trained in any language, the whole world is at our disposal.



4. Project status

What is done

1. A neural network was developed to generate an outgoing document.
2. The method of teaching a neural network for generation of source text with a "family style" has been developed and patented.

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62/719,660	08/19/2018		70			

Igor Mosevenkov

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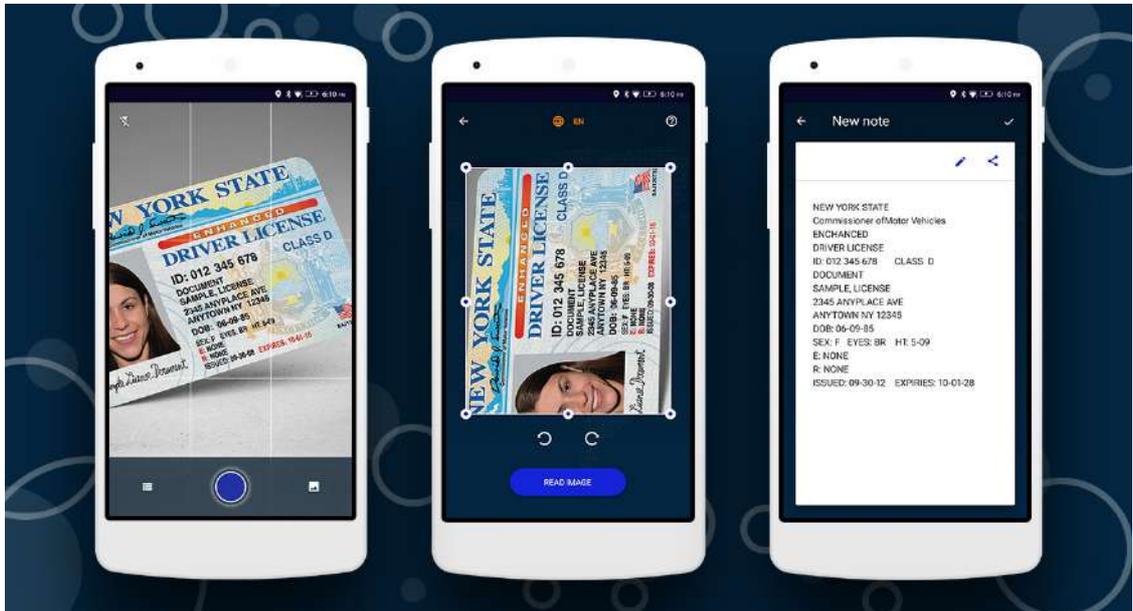
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3. An algorithm for recognizing the initial data and the work of the "prompter" was developed.
4. The method of operation of the prompter is patented and two more patents related to the renewal and use of neural networks.
5. An application was submitted for the publication of a scientific article describing the mathematical algorithm of the prompter's operation, supported by experiments.

6. A prototype of a mobile application for recognition and generation of texts was made.



Work in progress

A working model of the mobile application is being prepared, with a full set of services, ready to generate a limited number of documents.

Today, working with our small team, the project is constantly employed by only 5 people. With temporarily attracted experts, the number rarely reaches 10 active developers.

We were able to do the most important thing - to develop an algorithm for creating a working product and to develop a scaling mechanism.

The second round, the sale of the tokens will be announced only after the demonstration of the working mobile offer.

To enter the market, we need at least 200 working neural networks (or templates-using the previous terminology). A group of three people (a

programmer, a manager, an expert) issue a network with a speed of 1 network per month. Another month goes to the work of testers and auditors. Therefore, today it is necessary to simply increase the staff to 140-150 people. Creation of thirty working groups will allow planning, in one year to show the market a new service. For this we carry out the sale of tokens.

In addition to the specialized legal market, we are developing the delicious possibilities of neural networks: congratulations to relatives and answers to household letters and much more. We plan to present these possibilities of neural networks to our subscribers absolutely free of charge, we really want to help all the inhabitants of the planet to save time spent writing stupid but obligatory texts. Because life is so short!

5. Investors

- 1. Round 1 ICO from 27 October, ends 15 November 2018.**
 - 1.1.** During first round we plan to attract \$ 3mln.
 - 1.2.** No "soft cap" minimum.
 - 1.3.** Token buyers have 18% bonus.
 - 1.4.** All tokens are utilities (see the Howey test) and are immediately accepted to pay for services on our site.

- 1.5. All tokens are allowed to donate, transfer to third parties on any terms, like ordinary gift certificates.
 - 1.6. All types of investors can participate in round 1 without restrictions.
 - 1.7. LTI token have fixed price 0.009 BTC, their properties are described in the policy of tokens.
 - 1.8. Currencies in the first round:
 - fiat Euro;
 - Bitcoin(BTC);
 - Ethereum(ETH)
 - Ripple(XRP)
 - Bitcoin Cash(BCH)
 - EOS(EOS)
 - Litecoin(LTC)
 - NEO(NEO)
 - Dash(DASH)
 - NEM(XEM)
 - 1.9. The value of the token in currencies according to 1.9, is determined at the rate of BTC to the selected currency at the time of purchase of the token.
 - 1.10. You can sell or exchange utility tokens on decentralized platforms.
- 2. Second stage starts 15 January 2019 ends 15 January 2020.**

**Attention!**

The second round of sales is suspended. For all questions, please contact by Email office@token.lawtest.org

- 2.1. Soft cap \$16 mln.
- 2.2. To the second stage, no more than 35 non-professional investors are allowed.
- 2.3. LT2 token fixed price 0.5 BTC, their properties are described in the policy of tokens.
- 2.4. The second stage of the release of tokens is registered in the SEC, as securities.
- 2.5. Token buyers will have 18% discount.
- 2.6. Currencies allowed during round 2
 - fiat Euro;
 - fiat USD;
 - Bitcoin(BTC);
 - Ethereum(ETH).
- 2.7. The value of the token in currencies according to 2.7, is determined at the rate of BTC to the selected currency at the time of purchase of the token.

6. Token sale

- 6.1. At the first round, the bounty team's reward is 2.5%.
- 6.2. Reward of assistants is 5%.
- 6.3. In the second phase, 0.4% is planned for the bounty team.
- 6.4. Rewards of assistants in the second stage is 0.7%.

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