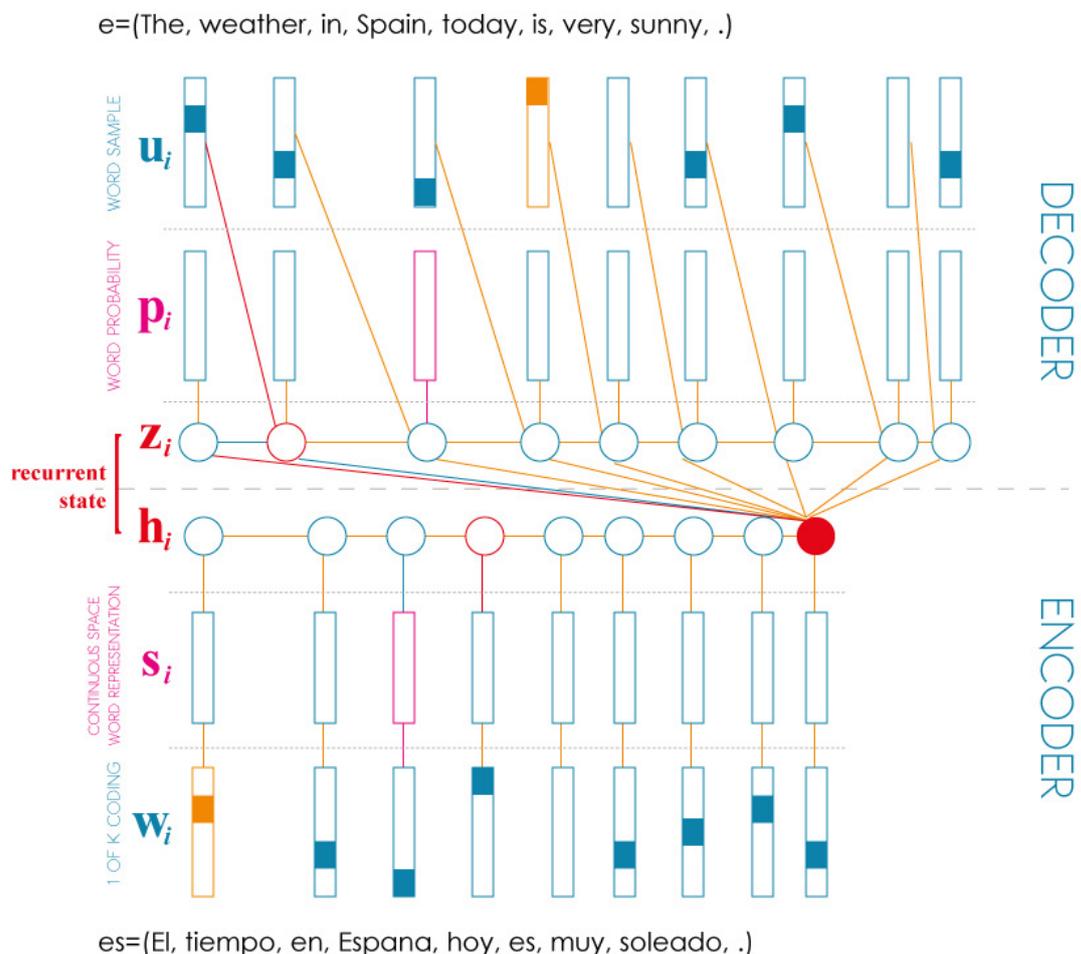# TECHNOLOGY

JONCKERS NEURAL MACHINE TRANSLATION - NMT

What is Jonckers NMT?

Neural MT is a fast evolving, innovative technology that enables machines to learn and to translate through an artificial neural network. Neural MT translates whole sentences at a time, rather than piece by piece. This allows the engine to use the broader context to select the most relevant translation, which it then rearranges to correct the grammar. Consequently, NMT provides an easier to read output as each sentence is more understandable.

How it works

Neural MT systems are built on deep learning methods, meaning that the system is taught to solve problems based on patterns in a data set, rather than written to a rigid set of instructions. Consequently, over time the quality of the output gets better and better as the machine begins to 'understand' language structures.

e=(The, weather, in, Spain, today, is, very, sunny, .)

WORD SAMPLE u_i

WORD PROBABILITY p_i

recurrent state z_i / h_i

CONTINUOUS SPACE WORD REPRESENTATION s_i

1 OF K CODING w_i

DECODER

ENCODER

es=(El, tiempo, en, Espana, hoy, es, muy, soleado, .)

NEURAL MACHINE TRANSLATION - NMT (CONTINUED)

How Jonckers NMT helps

Time to Market
One of the worlds leading online retailers desperately needed to get its products to market in a new locale before the competition – product descriptions and other customer facing materials needed translation as quickly as possible. By applying Machine Translation with human post editing, we achieved faster, high quality output at a fraction of the price.

Customer Responsiveness
A services client needed to apply a new delivery strategy for real time conversations between its global customer base, and its English-speaking sales support engineers in India. By applying Machine Translation, this was achieved in real time, improving customer services levels.

Cost
One of our high profile telecommunications partners needed a more cost effective way to deliver high volume customer support documentation to their customers in key global markets. Applying Machine Translation to structured and repetitive text, containing large volumes, meant we significantly reduced their translation costs.

The Sales Statement
WordsOnline has the two ways to incorporate Jonckers NMT machine translation in the translation process 1) customer can define Jonckers NMT as a translation provider and enable machine translation during pre-translating stage. 2) translator can select a segment and request a machine translation from translator workbench. With further development, WordsOnline can be extended to support additional translation provider required by the customers.

Key Values
• Leveraging on hundreds of millions of translated segments.
• Exponential leveraging curve with deep learning capabilities.
• Light or Full post-editing options for maximal ROI.

The Unique Selling Proposition (USP)
Trendy technology that continuously improves quality and maximizes your MT ROI.