

## 1. INTRODUCTION

Please design for me a program that will work on the **MT4 platform**. Please read instruction carefully, this project has *the requirement below in this document and an **Appendix document** where you find setting of the chart on a separate file.*

### 1.1. Requirement:

- The Program will be working on 15min,30min, 1H, 4H, Daily, and weekly time frame only.
- The program should be semi-automated, must allow either auto or manual trading
- The program must scan all currencies : Forex, Stock and commodities at once and display pairs meeting requirement with high probability on the GUI : in **Red for SELL** and in **GREEN for BUY**, refer to **(Figure 1 DIABOX OUTLOOK)**
- The program uses the following indicators: **EM15, EM30, EM60, TDI, PARABOLIC SAR and ADX**. The outlook of the chart including all indicators and chart configuration should be as shown in **(Figure 2 CHART OUTLOOK WITH ALL INDICATORS)**.
- When a pair has **high probability for a Buy**, the software **must not allow SELL** likewise when a pair **has high SELL probability** the program **shouldn't allow a BUY**. **(Figure 3 Example of SELL ONLY ACTIVE)**
- User must be able to choose the desire lot size, stop loss, take profit, as well as the trailing stop needs to be activated after being in certain amount of pips profits **(Figure 4 Lot size, Stop loss and Trailing stop setting)**
- Figure 3 + 4 should be displayed on the chart, on the **Figure 2 CHART OUTLOOK WITH ALL INDICATORS**.



Figure 1 DIABOX OUTLOOK

At this stage the user can click on any pair, this will take the user to the chart of that pair, where **figure 3 and 4 are shown**, if it is buy, the user can only have option to buy, **sell option should be deactivated**.

On the other hand, if the pair shows a sell and if the user click on the pair, the user will be redirected to the chart to enter the trade, and the user can only enter **sell trade**. **The buy button** will be deactivated.



Figure 2 CHART OUTLOOK WITH ALL INDICATORS

USD Emergency				
Load		Save as		
Sell at market		SELL		
Symbol	Spd	Bid	Change	
AUDCAD	3.2	0.89130	+0.3%	
AUDUSD	1.7	0.77311	+0.6%	
EURCAD	5.5	1.58980	+0.4%	
EURGBP	1.7	0.73205	+0.6%	
GBPUSD	2.0	1.54203	+0.3%	
GCUSD	4.6	1.82835	+0.4%	
INRUSD	2.2	0.71780	+0.6%	
USDCAD	2.2	1.25817	+0.2%	
USDJPY	1.6	101.630	+0.2%	
EURJPY	1.7	10.380	+0.4%	
SILVER	4.6	1.82835	+0.7%	
EURAUD	4.0	1.48140	+0.4%	
EURUSD	1.3	1.13848	+0.2%	
USDCHF	2.2	0.89130	+0.2%	

Figure 3 Example of SELL ONLY ACTIVE

Also the user must be able to choose the desire lot size, stop loss, as well the trailing stop need to be activated after being in certain amount of pips profits



*Figure 4 Lot size, Stop loss and Trailing stop setting*

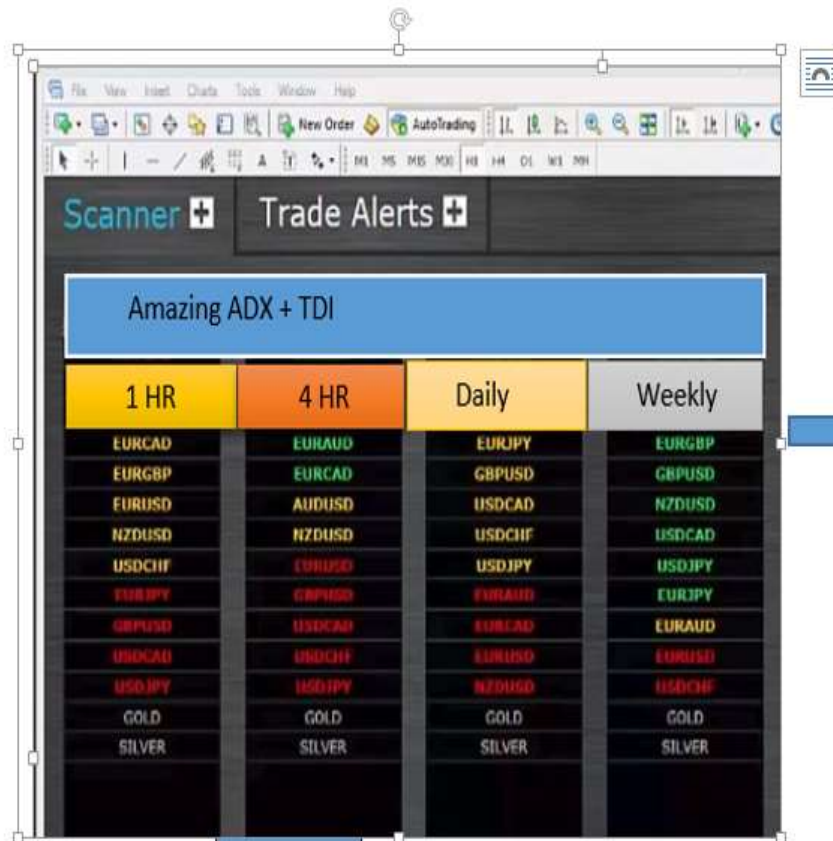
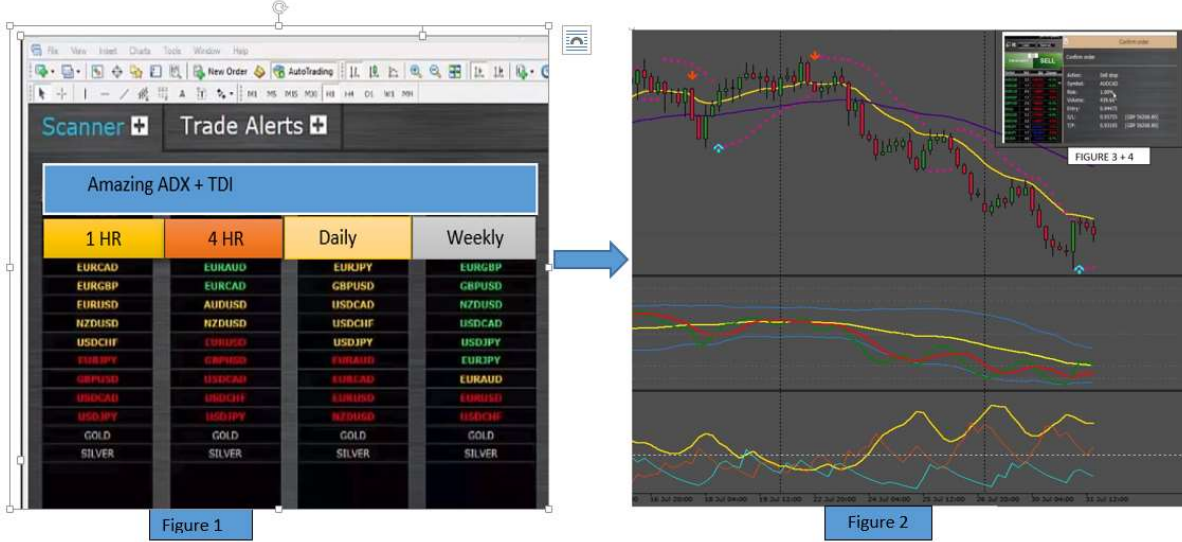


Figure 1



Figure 2

Step to follow : from figure 1 to figure 3+4



### The "TDI" (Traders Dynamic Index) indicator



Green line = RSI Price line

Red line = Trade Signal line

Blue lines = Volatility Band

Yellow line = Market Base Line

### Trend Direction - Immediate and Overall

Immediate: Green over Red... price action is moving up.

Red over Green...price action is moving down.

Overall: Yellow line trends up and down generally between the lines 32 & 68. Trade long when price is above the Yellow line, and trade short when price is below.

Overall: Blue Lines - When expanding, market is strong and trending. When constricting, market is weak and in a range. When the Blue lines are extremely tight in a narrow range, expect an economic announcement or other market condition to spike the market.

## Entry / Exit conditions

Aggressive

Long = Green line over Red & Yellow lines

Short = Red line over Green & Yellow lines

Conservative

Long = Green over Red, Yellow, & 50 lines

Short= Red over Green, Green below Yellow & 50 line

adx



The ADX is built on the unique concept of directional movement. Positive directional movement (+DM) refers to the difference between the high of a price bar and that of its preceding bar. Negative directional movement (-DM) is the difference between the low of a price bar and that of the bar before it.



Clearly, when the market is bullish, +DM is high. When the market is bearish, -DM is high.  
By combining +DM and -DM in a Wilder-ish formula, we get the ADX which is a measure of trend strength.

### INTERPRETING THE ADX

The ADX is a trend strength indicator. High values represent a trending market, and low values represent a dull one.

ADX values above 22 → Market is trending

ADX values below 22 → Market is meandering

Something is missing. Doesn't the ADX show us market trend's direction?

Alone, it does not. But the ADX is often used with the +DM and -DM plots. For instance, when +DM is above -DM and ADX is above 22 like in the chart above, the market is in a bull trend.

### Trend Strength

At its most basic, the Average Directional Index (ADX) can be used to determine if a security is trending or not. This determination helps traders choose between a trend-following system or a non-trend-following system. Wilder suggests that a strong trend is present when ADX is above 22 and no trend is present when ADX is below 22.



Sell Rules based on the [ADX+TDI](#)

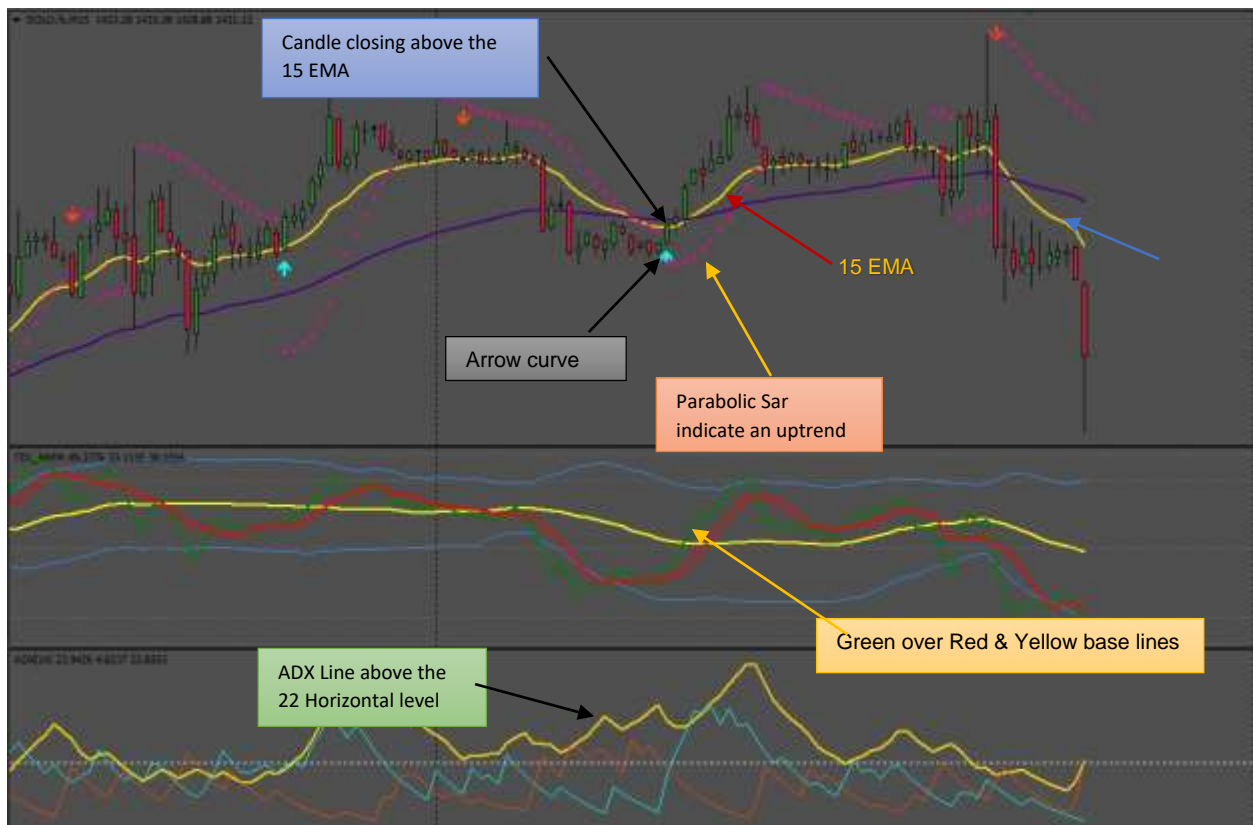
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- First check if the ADX Line is above the 22 Horizontal level
- Negative -ADX must cross above the positive +ADX and rise above the 22 horizontal Level
- On the TDI Green over Red & Yellow lines
- The Arrow curve must appear and must show a downtrend
- Parabolic Sar must indicate a downtrend within the next two candles
- After the negative -ADX cross above the positive +ADX, the current or the next two candles have to close below all the 15 EMA to confirm a sell,
- Then enter in the next candle.
- **NB: If the sell rules conditions are met but the ADX Line is below the 22 Horizontal Level wait for the ADX line to rise above the 22-horizontal level. Within the next two candles**

## Buy based on the: ADX+TDI



- First check if the ADX Line is above the 22 Horizontal level
- Positive +ADX must cross above the Negative -ADX and rise above the 22 horizontal Level
- On the TDI "Green line over Red & Yellow lines
- The Arrow curve must appear and must show a upper trend
- Parabolic Sar must indicate a uptrend within the next two candles
- After the Positive +ADX cross above the negative -ADX, the current or the next two candles have to close above the 15 EMA to confirm a sell,
- Then enter in the next candle.
- **NB: If the buy rules conditions are met but the ADX Line is below the 22 Horizontal Level wait for the ADX line to rise above the 22-horizontal level. Within the next two candles**