Estimating a Players Trade Value

A VANHAC Presentation by Matt Bradley
Things you will be Seeing

How the model is created

Results

Testing accuracy through history and evaluation plausible trades
So, how do I determine a player’s value?
## Value Generation

<table>
<thead>
<tr>
<th>Player</th>
<th>Team</th>
<th>Total Value</th>
<th>G/60</th>
<th>G/60 Value</th>
<th>1st A / 60</th>
<th>1st A / 60 Value</th>
<th>2nd A / 60</th>
<th>2nd A / 60 Value</th>
<th>ES CF % Relative</th>
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<tbody>
<tr>
<td>Kevin Bieksa</td>
<td>Anaheim Ducks</td>
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<td>93.0</td>
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<td>35.0</td>
<td>94.0</td>
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</table>

**Final Value**

- Kevin Bieksa: $(F2 \times 0.12) + (H2 \times 0.1) + (J2 \times 0.06) + (L2 \times 0.05) + (P2 \times 0.18) + (R2 \times 0.15) + (T2 \times 0.11) + (V2 \times 0.02) + (Y2 \times 0.11) + (N2 \times 0.1) + AA2 + (AC2 \times 2) + AE2$

Manson is in the 44th percentile amongst Defense.
1. Height (2%)
2. Even Strength Corsi For % Relative (5%)
3/4. Secondary (6%) and Primary (10%) Assists / 60
5. Defensive Ability (10%)
6. Contract (10%)
7. Age (11%)
8. TOI/Game (14%)
9. Goals/60 (14%)
10. Points/Game Since 2010 (18%)
Bonus Categories:
Draft Position, Position, Captaincy
Category Values Correlation to Total Value

- Points per game since 2010
- TOI per game
- Primary Assists / 60
- Goals /60
- ES CF Relative
- Secondary Assists /60
- Age
- Contract
- Defensive Ability
- Height
Limitations

- Not everything can be accounted for
- Contract Length / ELC’s
- Injury Data
- Player Styles
- No Goalies
Results
Using model to examine prior trades
Sergachev for Drouin
Winner: Mikhail Sergachev
Eberle for Strome 2
Winner: Jordan Eberle
Hjalmarsson for Murphy 3
Winner: Even
Panarin for Saad
Winner: Artemi Panarin
Scandella + Pominville for Foligno + Ennis
Scandella + Pominville for Foligno + Ennis

Winner:
Henrique for Vatanen
Winner: Even
Deadline Deals

Winnipeg Jets acquire forward Paul Stastny from St. Louis Blues in exchange for 2018 first-round pick, rights to forward Erik Foley.


San Jose Sharks acquire forward Evander Kane from Buffalo Sabres in exchange for 2019 conditional first-round pick, 2019 fourth-round pick, forward Dan O'Regan.

Order of buyers who 'won' (and sellers who 'lost'):
1. San Jose (Buffalo)  
2. Winnipeg (St. Louis)  
3. Nashville (Chicago)  
4. Vegas (Detroit)
New Jersey Devils acquire forward Patrick Maroon from Edmonton Oilers in exchange for 2019 third-round pick, forward Joey Dudek.


Columbus Blue Jackets acquire defenseman Ian Cole from the Ottawa Senators in exchange for forward Nick Moutrey and a third-round pick in the 2020 NHL Draft.


New York Islanders acquire defenseman Brandon Davidson from Edmonton Oilers in exchange for 2019 third-round pick.

Florida Panthers acquire forward Frank Vatrano from Boston Bruins for third-round pick in 2018 NHL Draft.

Order of buying winners (and selling losers)
1. Devils (Edmonton)
2. Bruins (Rangers)
3. Blue Jackets (Senators)
4. Capitals (Blackhawks)
5. Islanders (Edmonton)
6. Panthers (Bruins)
Possible Future Trades
THANKS!

Any questions?

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