



# **UTECH Mattress Dismantling and Recycling**

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**Boston Green Tourism**

**October 13, 2016**



**UTEC**

**Social Enterprises**

**Source of Volume**

**Process**

**After Market**



## **UTEC founded 1999**

- Serving “proven risk” youth 16-24
- Focus on education, employment and reduced criminal recidivism

## **Social Enterprises**

- Culinary
- Furniture Design
- Mattress Recycling

RESPECTFUL CURIOSITY

IGNITE SOCIAL JUSTICE

SPARK SUSTAINABILITY

MADD LOVE ASSUME GOOD

SEE BEYOND THE MASK

CONTAGIOUS PASSION

CLEAN SLATE PLANT SEEDS OF

HIPPING AWAY

THINK BIG



168 youth ages 16-24 participated in our intensive programming in FY16.

86%

HAD A CRIMINAL RECORD

77%

WERE GANG INVOLVED

80%

HAD NO HIGH SCHOOL CREDENTIAL

44%

WERE PREGNANT OR PARENTING

95% had more than one risk criteria, including 14% who had all four.

500+

additional youth served through Streetworker engagement, enrichment activities, and other events.



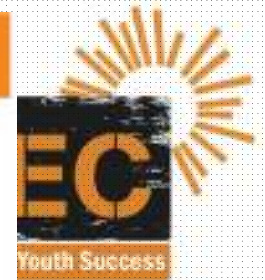
[www.utec-lowell.org](http://www.utec-lowell.org)



# Social Enterprises



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## UTEC's OUTCOMES

**83%** of youth who left UTEC programming have not been arrested in the last 2 years since leaving UTEC.

**82%** of youth who left UTEC programming were employed 2 years later.

**24%** of youth who engaged in our HiSET classes obtained a high school credential.

Learn more at [www.utec-lowell.org](http://www.utec-lowell.org)

## MASSACHUSETTS and NATIONAL OUTCOMES

**50%** of 18-24 year-olds who are incarcerated to county facilities in Massachusetts are re-arraigned within 1 year, and 76% are re-arraigned within 3 years.\*

**40%** Former inmates earn an average of 40% less than they would if they had not been incarcerated. In Massachusetts this amount totals \$760 million in lost wages annually.\*\* UTEC works to help our youth avoid this potential wage loss.

**<20%** of incarcerated males ages 18-24 nationally have attained at least a high school diploma or GED.\*\*\*

\*Klosterman, K., Allen, S., Fryer, M., and Womack, C. (2016). *Working group meeting 3 interim report*, July 12, 2016. Washington, DC: The Council of State Governments Justice Center. \*\*Fornari, B. and Larkin, J. (2013). *Crime, cost, and consequences: Is it time to get smart on crime?* Boston: MassINC. \*\*\*Schroff, U., Western, B., and Brubaker, K. (2014). *Community-based responses to justice-involved young adults: New thinking in Community Corrections*. Cambridge, MA: Harvard Kennedy School.





## **Mattress program begun 2013**

- Consultant work – Saint Vincent de Paul
- University pick-ups
- Low volumes

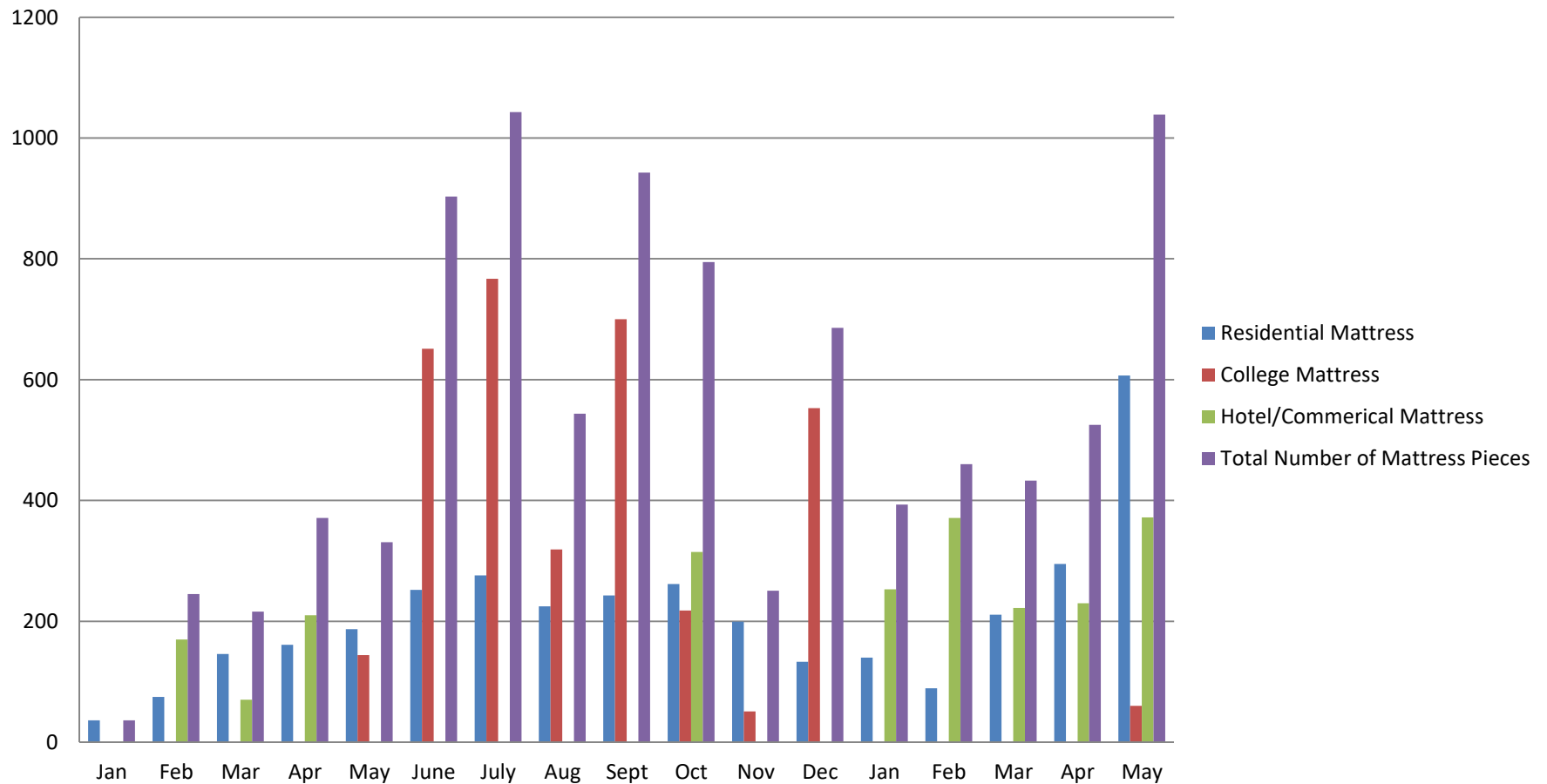
## **Business Ramped up in 2014**

- 7000 sq. ft. deconstruction space
- City of Lowell contract
- Aggressive pursuit of municipalities, hotels and universities
- Took in 6400 mattresses in 2014, 15,000 in 2015





## Number of Mattresses YTD (2014-2015)





## Current State of Business

- Hauling 500 – 1000 mattresses/month
- Residential pick-up agreements
  - Lowell, Newburyport
- Transfer station pick-up agreements
  - 15 Municipalities from south shore, to metro west
- University/School pick-ups
  - Eighteen schools in 2015-16
- Hotels
  - 4 hotels in 2014, 3 in 2015



## Work with Hotels

- Flexibility to meet hotel job needs
  - Pick up pieces at loading dock
  - Provide load-in and load-out service to rooms
  - Work around hotel timing
- Customers pay UTEC to haul
  - Starting rate is \$15/piece plus transportation to Lawrence
  - Transportation will depend on amount of labor required





## Work with Hotels - Pick-up

- UTECH picks up pieces at loading dock
- UTECH pick-ups options
  - Staff, youth and box truck (50 pieces/trip)
  - Private driver and trailer (100 pieces)
- Example customer
  - Sheraton Boston





## Work with Hotels – Load-in and Out

- UTECH can load-out and load-in rooms
  - Unload and stage incoming pieces
  - Move new pieces to rooms and old pieces out
    - Under hotel staff supervision
  - Schedule around hotel needs
- Example customers
  - Courtyard Marriott Norwood
  - Town Place Suites Marriott – Danvers
  - Attitash Grand Summit – Bartlett NH





## Bedbug inspection and quarantine

- Infested mattresses would be isolated/bagged
- Hotel would be notified of infestation
  - (Hasn't happened in hotel jobs yet)





## Process

- Protective suits
- Goggles
- Masks
- Gloves
- Box cutters





## Process

- Four cutting tables
- Youth and staff hand cut each mattress
- Everything broken down







## Process

- Materials separated into piles and baled
  - Springs
  - Foam
  - Toppers
  - Flame retardant sheets
  - Cotton
- Target minimal amount of trash





## After-Market Buyers

- Different buyers for different materials
  - Steel to salvage yard
  - Foam to carpet underlay manufacturer
  - Wood to mulcher
- Looking at other opportunities
  - Working with UMass and MIT to find other uses for cotton and gray padding
  - Looking at becoming bed rebuilder





**For more information contact us:**

**UTECH Mattress Recycling**

**15 Warren St. #3**

**Lowell, MA 01852**

**[www.utec-mattress.org](http://www.utec-mattress.org)**

**Call Ed Frechette 978-856-3910**