

# Iowa DOT Provides "Expert-on-Hand" **Technical Assistance to Promote Roundabouts Across the State**

Small localities in Iowa, as in other states, do not necessarily have the resources to

(DOT) created an innovative program—the Traffic Engineering Assistance Program

staff a full-time traffic engineer dedicated to analysis and design of intersection safety

enhancement projects, including roundabouts. The lowa Department of Transportation

(TEAP)—to deliver this very service to help smaller jurisdictions by providing an "expert-

on-hand," who visits the jurisdiction, gathers input from local stakeholders, and makes recommendations to help the agency identify, analyze, and implement traffic safety

improvements. In 2004, Iowa DOT expanded its expert-on-hand repertoire to include

roundabout analysis, design, and outreach support. They implemented this expansion

The TEAP provides a variety of traffic safety engineering consulting services, including

pedestrians and bicyclists. Through this program, Iowa DOT also offers no-cost, expert-

level roundabout design reviews to any local road agency that needs related technical assistance during any stage of the project delivery process. The program provides up to 100 hours of consulting time to gualifying local agencies with no local match required. Iowa DOT also provides an educational component led by an Iowa DOT traffic safety engineer, who is available to work with local agencies to help generate stakeholder support for roundabouts from, for example, the general public, local businesses, and elected officials. The traffic safety engineer can attend local community meetings with

in response to frequent questions about roundabout feasibility, how to design a roundabout effectively, and how to generate support from the local community.

identifying and recommending intersection improvements based on traffic and

the general public and/or elected officials as requested.

lowa goes roundabout

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Intersection designs

wa Department of TRANSPORTATION

safety data, dealing with unwarranted traffic control devices, and accommodating

In 2008, Iowa DOT held two one-day conferences for local engineering staff that brought together engineers and county staff from across the State to provide an

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# Location

State of Iowa (Central United States)

# **Implementation Stage**

- Planning
- Design
- Construction
- ✓ Launch
- Post-Implementation

# **Roundabout Type/Setting**

Single- and multi-lane roundabouts in urban and rural settings

### **Target Audience**

- Engineers
- Elected Officials/Mangers

### **Strategies Employed**

- Expert-on-hand
- ✓ Website
- Managed mailing list



lowa Department Iowa Department of Transportation - 800 Lincoln Way - Ames, IA 50010

() What is a roundabout? Benefits

() Myths and facts

Driver education

Definitions

Resources

() Roundabouts in Iowa () Take a test drive

FAQs

Background

Approach

Figure 1: Screenshot of the Iowa DOT roundabout information website.

Policies and Statements | Applets and Plug-ins

The Iowa Department of Transp

In recent years, roundabouts have been used in the United States to reduce crashes, traffic delays

Roundabouts often move more traffic and enhance intersection beauty. They have also been used

started using roundabouts in certain situations to enhance safety and reduce

Roundabouts have been used effectively throughout the world for many year

to control speed in residential neighborhoods and are accepted as one of the safest types o

delays encountered by the motoring public.

mption, air pollution, and construction and maintenance costs





Figure 3: Before and After – County-led project with assistance provided through Iowa DOT's expert roundabout review program. Black Hawk County, Iowa. Images Courtesy of Iowa DOT



#### 40 3. Safe Driving Tips

Figure 4: A page from the lowa Driver's License Manual illustrates how to use a single lane roundabout.

# Learn More

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708.283.3524 jeffrey.shaw@dot.gov introduction to roundabouts, including an overview of outreach techniques that have been successfully implemented, both in Iowa and elsewhere in the United States. Experts from across the country, including representatives from regions that have successfully implemented roundabouts such as the City of Clearwater (Florida), Washington State DOT, and Kansas DOT, discussed their agencies' experiences with roundabouts, what worked well, challenges that they faced, and lessons learned.

The lowa DOT also manages a traffic and safety e-mail list with over 300 subscribers (including university staff, DOT staff, local consultants, and city/county engineering and public works staff), enabling wide, but targeted, distribution of important roundabout-related messages with the click of a button.

# Results

lowa DOT staff believe that this program has worked well, pointing to the various successful roundabout projects and programs around the State. According to Tim Simodynes, traffic safety engineer with Iowa DOT, "If a city is interested in considering a roundabout, they usually have questions. Having experts available to answer those questions correctly is what makes the roundabout outreach a success. The TEAP helps us to do that for jurisdictions of all sizes."



Figure 2: Screenshot of the Iowa DOT TEAP website.

Because of TEAP, the local municipalities and engineers have changed their perception of roundabouts. "If they are open-minded and you give them the facts, they are usually sold on roundabouts. Naturally...a first reaction is that a roundabout is a bad idea, but it just takes education," said Mr. Simodynes.

# **Lessons Learned**

• In addition to bringing a traffic safety engineer to a public meeting, it can be helpful to show examples of successful roundabout implementations from other comparable regions of the country and provide contact information for those jurisdictions.

# **Outreach Investment**

lowa DOT considers TEAP to be a very cost-effective choice, because the program costs are primarily for the program engineer's salary and/or consultant time, relative to the safety benefits that jurisdictions of all sizes reap with the technical and outreach assistance delivered through the program.

# **Related Products**

### Websites

Iowa Goes Roundabout website http://www.iowadot.gov/roundabouts/roundabouts.htm

Traffic Engineering Assistance Program website http://www.iowadot.gov/traffic/teap.html